2006-2007
Undergraduate Catalog

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The UCF Creed

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

Integrity
I will practice and defend academic and personal honesty.

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

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

Creativity
I will use my talents to enrich the human experience.

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

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

UCF Stands For Opportunity
Dear UCF Students and Prospective Students:

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

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

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

You have my best wishes for success and my assurance that UCF faculty and staff are committed to helping you complete your degree so that you can join a proud group of over 135,000 alumni.

Cordially yours,

John C. Hitt
President

An Equal Opportunity and Affirmative Action Institution
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### Colleges, Schools, and Departments

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#### College of Arts and Humanities

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#### College of Business Administration

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#### College of Optics and Photonics

| Dean and Director | Eric V. Stickland |

#### Rosen College of Hospitality Management

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<tr>
<td>Chair, Physics</td>
<td>Ralph Llewellyn</td>
</tr>
<tr>
<td>Chair, Psychology</td>
<td>Roger Handberg</td>
</tr>
<tr>
<td>Chair, Sociology</td>
<td>Harold Corzine</td>
</tr>
<tr>
<td>Chair, Statistics &amp; Actuarial Sciences</td>
<td>David Nickerson</td>
</tr>
</tbody>
</table>
## 2006 - 2007 FALL / SPRING ACADEMIC CALENDARS

<table>
<thead>
<tr>
<th>Event</th>
<th>Fall 2006</th>
<th>Spring 2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application deadline for Graduate International students</td>
<td>Jan. 15</td>
<td>July 1, 2006</td>
</tr>
<tr>
<td>Application deadline for Undergraduate International students</td>
<td>March 1</td>
<td>Sept. 1, 2006</td>
</tr>
<tr>
<td>Application deadline for all New Undergraduate Freshmen Applicants</td>
<td>May 1</td>
<td>Nov. 1, 2006</td>
</tr>
<tr>
<td>Application deadline for New Undergraduate Transfers</td>
<td>July 1</td>
<td>Nov. 1, 2006</td>
</tr>
<tr>
<td>Application deadlines for readmission</td>
<td>July 15</td>
<td>Nov. 15, 2006</td>
</tr>
<tr>
<td>Graduation Application (Intent to Graduate form) due in college advising office</td>
<td>Aug. 4</td>
<td>Dec. 2, 2006</td>
</tr>
<tr>
<td>Registration and Add/Drop</td>
<td>Mar. 27 - Aug. 4</td>
<td>Mar. 27 - Jan 27, 2007</td>
</tr>
<tr>
<td>Residence halls open</td>
<td>Aug. 17 (11:00 a.m.)</td>
<td>Jan. 5 (1:00 p.m.)</td>
</tr>
<tr>
<td>Registration time for State Employees, Non-degree, Transients and Audits (begins 3:00 p.m.)</td>
<td>Aug. 18</td>
<td>Jan. 5</td>
</tr>
<tr>
<td>Registration for UCF Employees, Senior Citizen Audits, and STEP (begins 3:30 p.m.)</td>
<td>Aug. 18</td>
<td>Jan. 5</td>
</tr>
<tr>
<td>Classes begin</td>
<td>Aug. 18</td>
<td>Jan. 5</td>
</tr>
<tr>
<td>Late Registration and Add/Drop</td>
<td>Aug. 21-25</td>
<td>Jan. 8-12</td>
</tr>
<tr>
<td>Last day for full refund</td>
<td>Aug. 25</td>
<td>Jan. 12</td>
</tr>
<tr>
<td>Grade Forgiveness deadline</td>
<td>Aug. 25</td>
<td>Jan. 12</td>
</tr>
<tr>
<td>Payment deadline</td>
<td>Sep. 1</td>
<td>Jan. 19</td>
</tr>
<tr>
<td>CLAST test (register by September 2/Jan. 20)</td>
<td>Oct. 7</td>
<td>Feb. 17</td>
</tr>
<tr>
<td>Withdrawal deadline</td>
<td>Oct. 13</td>
<td>Mar. 2</td>
</tr>
<tr>
<td>VA deferral payment deadline</td>
<td>Nov. 17</td>
<td>Apr. 6</td>
</tr>
<tr>
<td>Classes end; last day to remove incomplete</td>
<td>Dec. 2</td>
<td>Apr. 23</td>
</tr>
<tr>
<td>Final Examination Period</td>
<td>Dec. 4-9</td>
<td>Apr. 24 - May 30</td>
</tr>
<tr>
<td>Residence halls close (noon)</td>
<td>Dec. 10</td>
<td>May 1</td>
</tr>
<tr>
<td>Commencement</td>
<td>Dec. 11-12</td>
<td>May 3-5</td>
</tr>
<tr>
<td>Classes Due in Registrar's Office</td>
<td>Dec. 13</td>
<td>May 3</td>
</tr>
<tr>
<td>Grades Available on myUCF (begins 9:00 a.m.)</td>
<td>Dec. 15</td>
<td>May 5</td>
</tr>
</tbody>
</table>

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

All undergraduate degree-seeking students are required to attend Orientation prior to registration. Information on Orientation is mailed to all students upon acceptance to the University.

If possible, examinations should not be scheduled on days or during times of religious holidays. Students are expected to notify their instructor in advance if they intend to observe a holy day of their religious faith. For additional information, contact the Office of Diversity Initiatives (MH 329) at 407-823-6479.

1 End of day
2 $100 Late Registration Fee applies to students who enroll following the close of Add/Drop or who enroll for the first time during Late Registration and Add/Drop.
3 $100 Late Payment Fee applies to students who do not pay their fees or do not pay their fees by the due date.

### University Holidays and Special Events

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor Day Holiday</td>
<td>Sep. 4, 2006</td>
</tr>
<tr>
<td>Homecoming Week (classes still held)</td>
<td>Oct. 30 - Nov. 4, 2006</td>
</tr>
<tr>
<td>Veteran's Day Holiday</td>
<td>Nov. 11, 2006</td>
</tr>
<tr>
<td>Thanksgiving Holiday</td>
<td>Nov. , 2005</td>
</tr>
<tr>
<td>Martin Luther King Jr. Holiday</td>
<td>November 23-25, 2007</td>
</tr>
<tr>
<td>Spring Break - Holiday</td>
<td>March 12-17, 2007</td>
</tr>
<tr>
<td>Founders Day Honors Convocation (classes still held)</td>
<td>April 4, 2007</td>
</tr>
</tbody>
</table>
### Summer 2007 Academic Calendar

<table>
<thead>
<tr>
<th>Summer 2007</th>
<th>Session A</th>
<th>Session B</th>
<th>Session C</th>
<th>Session D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application deadline for all New Undergraduate Freshmen Applicants and Transfers</td>
<td>March 1</td>
<td>March 1</td>
<td>March 1</td>
<td>March 1</td>
</tr>
<tr>
<td>Application deadlines for readmission</td>
<td>April 13</td>
<td>April 13</td>
<td>April 13</td>
<td>April 13</td>
</tr>
<tr>
<td>Graduation Application (Intent to Graduate form) due in college advising office</td>
<td>May 5 - April 23</td>
<td>May 5 - April 23</td>
<td>May 5 - April 23</td>
<td>May 5 - April 23</td>
</tr>
<tr>
<td>Registration for State Employees, Non-degree, Transients and Audits (begins 3:00 p.m.)</td>
<td>May 11</td>
<td>June 22</td>
<td>May 11</td>
<td>May 11</td>
</tr>
<tr>
<td>Registration for UCF Employees, Senior Citizen Audits, and STEP (begins 3:30 p.m.)</td>
<td>May 11</td>
<td>June 22</td>
<td>May 11</td>
<td>May 11</td>
</tr>
<tr>
<td>Residence halls open (11:00 a.m.)</td>
<td>May 13</td>
<td>June 23</td>
<td>May 13</td>
<td>May 13</td>
</tr>
<tr>
<td>Classes begin</td>
<td>May 4</td>
<td>June 25</td>
<td>May 4</td>
<td>May 4</td>
</tr>
<tr>
<td>Late Registration and Add/Drop</td>
<td>May 14-18</td>
<td>June 25-29</td>
<td>May 14-18</td>
<td>May 14-18</td>
</tr>
<tr>
<td>Fees due; Last day for full refund</td>
<td>May 25, 2007 - Students registering from 3/26/07 through 5/18/07</td>
<td>7/6/07 - Students registering for Summer B only through 6/29/07</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grade Forgiveness deadline</td>
<td>May 18</td>
<td>June 29</td>
<td>May 18</td>
<td>May 18</td>
</tr>
<tr>
<td>Withdrawal deadline</td>
<td>June 1</td>
<td>July 13</td>
<td>June 22</td>
<td>June 15</td>
</tr>
<tr>
<td>VA deferral payment deadline</td>
<td>July 27</td>
<td>July 27</td>
<td>July 27</td>
<td>July 27</td>
</tr>
<tr>
<td>Classes end; last day to remove incomplete</td>
<td>June 22</td>
<td>August 3</td>
<td>August 3</td>
<td>July 13</td>
</tr>
<tr>
<td>Final Examination Period</td>
<td>June 22</td>
<td>August 3</td>
<td>August 3</td>
<td>July 13</td>
</tr>
<tr>
<td>Residence halls close (noon)</td>
<td>June 23</td>
<td>August 4</td>
<td>August 4</td>
<td>July 14</td>
</tr>
<tr>
<td>Grades due in Registrar’s Office</td>
<td>June 25</td>
<td>August 6</td>
<td>August 6</td>
<td>June 16</td>
</tr>
<tr>
<td>Grades Available on myUCF (begins 9:00 a.m.)</td>
<td>June 26</td>
<td>August 8</td>
<td>August 8</td>
<td>July 17</td>
</tr>
<tr>
<td>Commencement</td>
<td>August 4</td>
<td>August 4</td>
<td>August 4</td>
<td>August 4</td>
</tr>
</tbody>
</table>

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

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**University Holidays and Special Events**

- **Memorial Day Holiday** .................................. May 28, 2007
- **Independence Day Holiday** .............................. July 4, 2007
Administrative Procedures Act Policy Statement

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

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

Non-Discrimination Policy (including sexual harassment)

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

Sexual harassment, a form of sex discrimination, is defined as unwelcome sexual advances, requests for sexual favors, or verbal or physical conduct of a sexual nature when:
1. Submission to such conduct is made either explicitly or implicitly a term or condition of an individual’s employment or enrollment;
2. Submission to or rejection of such conduct by an individual is used as the basis for employment or enrollment decisions affecting such individual; or
3. Such conduct has the purpose or effect of substantially interfering with an individual’s work performance or enrollment, or creating an intimidating, hostile, or offensive working or academic environment.

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

Drug-Free Workplace/Drug-Free Schools Policy Statement

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

Campus Alcoholic Beverages Policy

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

Guidelines

The sale and service of alcoholic beverages to persons younger than 21 years of age is prohibited. Possession or consumption of alcoholic beverages is prohibited by persons younger than 21 years of age. Possession and consumption of alcoholic beverages in open or unsealed containers is prohibited except in designated areas or as approved with special events.

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

Student organizations may develop more stringent regulations regarding alcohol use.

Locations

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

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

Approval Procedures: Student Groups

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

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

Approval Procedures: Non-Student Groups

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


Academic Behavior Standards

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

- Cheating, whereby non-permissible written, visual, or oral assistance including that obtained from another student is utilized on examinations, course assignments, or projects. The unauthorized possession or use of examination or course related material may also constitute cheating.

- Plagiarism, whereby another's work is deliberately used or appropriated without any indication of the source, thereby attempting to convey the impression that such work is the student's own. Any student failing to properly credit ideas or materials taken from another has plagiarized.

- Unauthorized assistance: communication to another through written, visual, or oral means. The presentation of material which has not been studied or learned, but rather was obtained solely through someone else's efforts and used as part of an examination, course assignment or project. The unauthorized possession or use of examination or course related material may also constitute cheating.

- Commercial Use of Academic Material: Selling notes, handouts, etc., which were created for use by the student for a commercial purpose without the express written permission of the University and the Instructor is a violation of this rule.

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

Student Use of Technology

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

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

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

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

Policy for Undeclared Students

All students at the University of Central Florida are expected to officially declare a major prior to earning 45 college credit hours (this includes credits earned from CLEP, Dual Enrollment, AP and IB). An academic hold to prevent future university registration will be placed on the records of all students who have not declared a major.

Students must meet with an academic advisor (within Student Development and Enrollment Services, the Colleges, or Regional campuses) to have the hold released.

Student Responsibility for University Communication

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

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

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

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

Students can update their contact information online at https://my.ucf.edu.

Complaint Policy

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

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

Accreditation

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

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

### College/Discipline

#### Arts and Humanities

**Accrediting Body**

- National Association of Schools of Music (NASM)
- The Association to Advance Collegiate Schools of Business (AACSB)
- State Accreditation-Florida Department of Education; National Council for Accreditation of Teacher Education (NCATE)
- Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET)
- Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET)
- Computing Accreditation Commission (CAC) of ABET
- American Health Information Management Association (AHIMA) in conjunction with the Commission on Accreditation of Allied Health Education Programs (CAAHEP)
- National Accrediting Agency for Clinical Laboratory Sciences (NAACLs)
- American Association of Colleges of Nursing/ Commission on Collegiate Nursing Education (CCNE)
- Joint Review Committee on Education in Radiologic Technology (JRCERT)
- Council on Social Work Education (CSWE)
- Accreditation Commission for Programs in Hospitality Administration
- American Chemical Society (ACPRA)

**Engineering and Computer Science**

- Aerospace, Civil, Environmental, Industrial, and Mechanical Engineering
  - Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET)
  - Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET)
- Computer Science
  - Computing Accreditation Commission (CAC) of ABET
- Engineering Technology
  - (Electrical Engineering Technology and Engineering Technology)
  - (Electrical Engineering Technology and Engineering Technology)
  - Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET)
  - Computer Science
  - Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET)
  - Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET)
  - Computer Science
  - Computing Accreditation Commission (CAC) of ABET
- Radiologic Sciences
  - Joint Review Committee on Education in Radiologic Technology (JRCERT)
- Social Work
  - Council on Social Work Education (CSWE)

**Health Information Management**

- American Health Information Management Association (AHIMA) in conjunction with the Commission on Accreditation of Allied Health Education Programs (CAAHEP)
- National Accrediting Agency for Clinical Laboratory Sciences (NAACLs)
- American Association of Colleges of Nursing/ Commission on Collegiate Nursing Education (CCNE)
- Florida Board of Nursing
- Joint Review Committee on Education in Radiologic Technology (JRCERT)
- Council on Social Work Education (CSWE)
- Accreditation Commission for Programs in Hospitality Administration

**Nursing**

- American Association of Colleges of Nursing/ Commission on Collegiate Nursing Education (CCNE)
- Florida Board of Nursing

**Medical Laboratory Sciences**

- National Accrediting Agency for Clinical Laboratory Sciences (NAACLs)
- American Association of Colleges of Nursing/ Commission on Collegiate Nursing Education (CCNE)
- Florida Board of Nursing
- Joint Review Committee on Education in Radiologic Technology (JRCERT)
- Council on Social Work Education (CSWE)
- Accreditation Commission for Programs in Hospitality Administration

**Radiologic Sciences**

- Joint Review Committee on Education in Radiologic Technology (JRCERT)
- Council on Social Work Education (CSWE)
- Accreditation Commission for Programs in Hospitality Administration

**Sciences**

- Chemistry
  - American Chemical Society (ACPRA)

**The University of Central Florida**

The University of Central Florida is one of the fastest growing, metropolitan research universities in the country—and it is located in Orlando, one of the most dynamic metropolitan areas in the U.S. With a total enrollment of more than 42,500, UCF is now one of the largest universities in the nation.
## UCF Regional Campuses

The University of Central Florida also offers an opportunity to complete a number of programs through UCF Regional Campuses. Strategically located within an 80-mile radius of the UCF Orlando campus, the multiple non-residential locations partner with six Florida community colleges, fostering seamless and convenient advancement from completion of an A.A. or A.S. degree to upper-level division work on a baccalaureate degree. Programs include 20 Bachelor’s programs, 19 minors, 11 master’s degrees, and 9 graduate certificates with each of the UCF Colleges represented within the system. With close proximity to Orlando, resources are available at UCF and the UCF Regional Campuses, such as admissions, registration, financial aid, advising, student clubs and organizations, disability services, veteran’s affairs, “smart classrooms,” libraries, computer labs, and more.

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

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

### Administration

#### UCF Regional Campuses Central Administration

12201 Research Parkway, Suite 101
Orlando, 32862; 407-823-4547

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vice Provost</td>
<td>David Harrison</td>
</tr>
<tr>
<td>Senior Administrative Assistant</td>
<td>Dania Suarez</td>
</tr>
<tr>
<td>Asst. Vice President, Student Services</td>
<td>A.J. Range</td>
</tr>
<tr>
<td>Director, Academic Planning</td>
<td>Bill Wetherell</td>
</tr>
<tr>
<td>Instructional Facilities Scheduler</td>
<td>Barbara Smith</td>
</tr>
<tr>
<td>Coordinator, Statistical Research</td>
<td>Charles Otto</td>
</tr>
<tr>
<td>Coordinator, Statistical Research</td>
<td>Jeanne Walker</td>
</tr>
<tr>
<td>Director, Admissions</td>
<td>Ange Peterson</td>
</tr>
<tr>
<td>Director, Advising</td>
<td>Judy Boyle</td>
</tr>
<tr>
<td>Director, Business Affairs</td>
<td>Jim Moriarty</td>
</tr>
<tr>
<td>Assoc. Dir., Academic Support Services</td>
<td>Vicky Matthews</td>
</tr>
<tr>
<td>Director, Communications</td>
<td>Karen Jans</td>
</tr>
<tr>
<td>Coordinator, Web Administrator</td>
<td>Tony Recascino</td>
</tr>
<tr>
<td>Senior Art Specialist, Mary Lou Wade</td>
<td>Kirk Henry</td>
</tr>
<tr>
<td>Assoc. Director, Head of Partnership Library Services</td>
<td>Mem Stahley</td>
</tr>
</tbody>
</table>

#### Central Region

**UCF at Downtown**

Asst. Vice President, Central Region          David Mealarm
Coordinator, Ed Media/ITV                     Jim Weaver

#### Eastern Region

**UCF at Daytona Beach, UCF at Heathrow, UCF at Sanford/Lake Mary**

Asst. Vice President, Eastern Region          Bernard Jensen
Director, Eastern Region                      David Lane
Asst. Director, Acad. Support Services        TBA
Coordinator, Admissions, Reg., Records        TBA
Program Officer, Admissions, Reg.             Sheri Newble-Dunn
Coordinator, Financial Aid                     Charlene Driver
Coordinator, Acad. Support Services           Leeanne Davis
Coordinator, Acad. Support Services           Darryl Greeley
Coordinator, Acad. Support Services           Cindi Thomas
Coordinator, Acad. Support Services           Diana Weidman
Coordinator, Computer Technology              Jason Mayer

#### Southern Region

**UCF at Cocoa, UCF at Palm Bay**

Assoc. Vice President, Southern Region         James A. Drake
Director, Southern Region                      Lauren Miller

#### Western Region

**UCF at MetroWest, UCF at Ocala, UCF at Osceola, UCF at South Orlando, UCF at South Lake**

Asst. Vice President, Western Region          Cecelia Rivers
Director, Western Region                       Edgar Martinez
Coordinator, Admissions and Reg.              Christie Passin
Coordinator, Acad. Support Services           Tanya Armstrong
Coordinator, Acad. Support Services           Selena Forrester
Coordinator, Acad. Support Services           Kathy Halliwel
Coordinator, Acad. Support Services           Robin Tinsley
Coordinator, Ed Media/Communication           TBA

### UCF at Cocoa

(321) 433-7821

**In partnership with Brevard Community College**

#### Undergraduate Degree Programs

- Applied Science (Supervision & Administration or Industrial Operations Track) (B.A.S.) Office of Undergraduate Studies
- Business Administration (B.A.B.A) College of Business Administration
- Communicative Disorders (B.A., B.S.) College of Health and Public Affairs
- Criminal Justice (B.A., B.S.) College of Health and Public Affairs
- Elementary Education (B.S.) College of Education
- Engineering Technology – Operations (B.S.E.T.) College of Engineering and Computer Science
- Exceptional Student Education (B.S.) College of Education
- History (B.A.) College of Arts and Humanities
- Legal Studies (B.A., B.S.) College of Health and Public Affairs
- Liberal Studies (B.A., B.S.) Office of Undergraduate Studies
- Nursing (B.S.N., R.N. to B.S.N.) College of Health and Public Affairs
- Political Science (B.A.) College of Sciences
- Pre-Engineering/Engineering (BCC-UCF Joint Program B.S.E.) College of Engineering and Computer Science
- Psychology (B.A., B.S.) College of Sciences
- Sociology (B.A., B.S.) College of Sciences
- Women’s Studies (Minor and Certificate)

#### Undergraduate Minors
- Anthropology in Multicultural Studies
- Business (For non-business majors only)
- Communicative Disorders
- Criminal Justice
- English – Writing
- Exceptional Education
- Health Services Administration
- History
- Interpersonal Communication
- Legal Studies
- Organizational Communication
- Political Science
- Psychology
- Religious Studies
- Social Sciences – Interdisciplinary
- Sociology
- Women’s Studies (Minor and Certificate)

### Graduate Degree Programs

- Business Administration (P.M.B.A.)* College of Business Administration
- Criminal Justice (M.S.) College of Health and Public Affairs
- Education Leadership (M.Ed.) College of Education
- Engineering FEEDS/ITV (M.S.) College of Engineering
- Health Sciences: Health Services Administration (M.S.) College of Health and Public Affairs
- Industrial Engineering and Management Systems (M.S.) College of Engineering and Computer Science
- Public Administration (M.P.A.) College of Health and Public Affairs
- Reading Education (M.Ed.) College of Education

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

**RESOURCES & DEPARTMENTS**

**Health Sciences:** Health Services Administration (M.S.)
Clinical Psychology (M.A.)
Reading Education (M.Ed.)
Business Administration (P.M.B.A.)*

**Graduate Degree Programs**
Women's Studies (Minor and Certificate)
Sociology
Social Sciences – Interdisciplinary
Psychology
Political Science
Organizational Communication
Hospitality Management
History
Health Services Administration
Exceptional Education
English – Writing
Early Childhood Education
Criminal Justice

**Undergraduate Degree Programs**
Applied Science (Supervision & Administration Track) (B.A.S.) Office of Undergraduate Studies
Business Administration (B.A.B.A.) College of Business Administration
Criminal Justice (B.A., B.S.) College of Health and Public Affairs
Early Childhood Education (B.S.) College of Education
Elementary Education (B.S.) College of Education
Exceptional Student Education (B.S.) College of Education
Legal Studies (B.A., B.S.) College of Health and Public Affairs
Liberal Studies (B.A., B.S.) Office of Undergraduate Studies
Nursing (B.S.N., R.N. to B.S.N.) College of Health and Public Affairs
Photography (B.S.) College of Arts and Humanities
Political Science (B.A.) College of Sciences
Psychology (B.A., B.S.) College of Sciences
Social Sciences (B.S.) College of Sciences
Sociology (B.A.) College of Sciences

**Undergraduate Minors**
Anthropology in Multicultural Studies
Business (For non-business majors only)
Criminal Justice
Early Childhood Education
English – Writing
Exceptional Education
Health Services Administration
History
Hospitality Management
Interpersonal Communication
Legal Studies
Organizational Communication
Political Science
Psychology
Religious Studies
Social Sciences – Interdisciplinary
Sociology
Women’s Studies (Minor and Certificate)

**Graduate Degree Programs**
Business Administration (P.M.B.A.)* College of Business Administration
Clinical Psychology (M.A.) College of Sciences
Criminal Justice (M.S.) College of Health and Public Affairs
Educational Leadership (M.Ed.) College of Education
Health Sciences: Health Services Administration (M.S.) College of Health and Public Affairs
Reading Education (M.Ed.) College of Education
Social Work (M.S.W.) College of Health and Public Affairs
*Administered in association with the Executive Development Center of the College of Business Administration

**Graduate Certificate Programs**
Corrections Leadership
ESOL Endorsement K-12
Professional Writing
Reading Education

**UCF Downtown**
(407) 317-7700

**Undergraduate Degree Programs**
Legal Studies (B.A., B.S.) College of Health and Public Affairs

**Undergraduate Minors**
English – Writing
Health Services Administration
History
Legal Studies
Political Science

**UCF at Heathrow**
(407) 531-5450
(In partnership with Seminole Community College)

**Graduate Degree Program**
Industrial and Organizational Psychology (M.S.) College of Sciences

**UCF at MetroWest**
(407) 582-5500
(In partnership with Valencia Community College)

**Undergraduate Degree Programs**
Applied Science (Supervision & Administration Track) (B.A.S.) Office of Undergraduate Studies
Business Administration (B.A.B.A.) College of Business Administration
Liberal Studies (B.A.) (Very limited in scope. Please see an advisor.)
Office of Undergraduate Studies
Psychology (B.A.) College of Sciences

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

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

**Undergraduate Degree Programs**
Elementary Education (B.S.) College of Education
Psychology (B.A.) College of Sciences

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

**UCF at Osceola**
(407) 856-6585
(In partnership with Valencia Community College)

**Undergraduate Degree Programs**
Elementary Education (B.S.) College of Education
Psychology (B.A.) College of Sciences

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

**UCF at Osceola**
(407) 856-6585
(In partnership with Valencia Community College)

**Undergraduate Degree Programs**
Elementary Education (B.S.) College of Education
Psychology (B.A.) College of Sciences

**Undergraduate Minors**
English – Writing
Health Services Administration
History
Legal Studies
Political Science

**UCF at Palm Bay**
(321) 433-7995
(In partnership with Brevard Community College)

**Undergraduate Degree Programs**
Business Administration (B.A.B.A.) College of Business Administration
Early Childhood Education (B.S.) College of Education
Liberal Studies (B.A., B.S.) (Very limited in scope. Please see an adviser.) Office of Undergraduate Studies
Psychology (B.A.) College of Sciences

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

Graduate Degree Programs  
Health Sciences: Health Services Administration (M.A.)  
College of Health and Public Affairs (407) 328-2471  
(In partnership with Seminole Community College)  

UCF at Sanford/Lake Mary  
(407) 328-2471  
(In partnership with Seminole Community College)  

Undergraduate Degree Programs  
Applied Science (Supervision & Administration Track) (B.A.S.) Office of Undergraduate Studies  
Business Administration (B.A.B.A.) College of Business Administration  
Criminal Justice (B.A., B.S.) College of Health and Public Affairs  
Elementary Education (B.S.) College of Education  
Legal Studies (B.A., B.S.) College of Health and Public Affairs  
Liberal Studies (B.A., B.S.) Office of Undergraduate Studies  
Psychology (B.A.) College of Sciences  

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

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

Undergraduate Degree Programs  
Business Administration (B.A.B.A.) College of Business Administration  
Early Childhood Education (B.S.) College of Education  
Elementary Education (B.S.) College of Education  
Liberal Studies (B.A.) (Very limited in scope. Please see an advisor.)  
Office of Undergraduate Studies  
Psychology (B.A.) College of Sciences  
Sports and Fitness (B.S.) College of Education  

UCF at South Orlando  
(407) 856-6585  
7300 Lake Ellenor Drive, Orlando, FL 32809  
This location provides course work (junior and senior level) contributing to undergraduate degrees. Please check the schedule for course offerings.  

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

The following UCF Regional Campus Minors are available completely (but not exclusively) on the web:  
English - Writing  
Health Services Administration  
History  
Legal Studies  
Political Science  

Psychology  
Social Sciences - Interdisciplinary  
Sociology  

Central Florida Research Park  
The Central Florida Research Park, adjacent to the main UCF campus, is a University-related research park established as a result of legislation passed by the Florida Legislature in 1978. The Research Park is a cooperative effort between UCF, the Orange County Research and Development Authority, and the Orange County Board of County Commissioners (which appoints the members of the Authority). The governing body of the Research Park is the Orange County Research and Development Authority.  
The objectives of the Central Florida Research Park are in keeping with the legislative action that enabled its creation “to encourage and promote the establishment of research and development activity, combining the resources of institutions of higher learning, private sector enterprise involved in pure or applied research, and state or federal governmental agency research.”  
The ultimate goal of University-related research parks is to establish an academic/industrial community. The University and officials of the Central Florida Research Park believe that the potential for the establishment of close ties between the University and industry will create an environment conducive to the location of research-oriented industry in the Research Park. This activity will enrich and support the academic, teaching, and research programs of the University. The University, in turn, can provide the necessary expertise and human resources to enhance the research and development activities required and planned by Research Park residents.  
The Central Florida Research Park consists of over 1,000 acres of land. Businesses desiring a “university relationship” can purchase or lease land in the Research Park on which to construct a facility or can lease space for office, office/lab, or light manufacturing activities.  
Research Park tenants are involved with the University of Central Florida through sponsored research, using faculty as consultants, and using graduate and undergraduate students for intern programs and part-time employment. Research Park tenants can also contract with the University for use of the library, computer resources, and laboratory facilities. Cooperative projects range from technical research to developing business plans and employee training programs.  

Endowed Chairs  
Endowed chairs are established under the Florida Major Gifts Trust Fund, which provides $420,000 in state funds to match $600,000 in contributions from private sources within a five-year period.  
Phillips-Schenck Chair in American Private Enterprise: Created in 1988 to support the work of an internationally recognized scholar in laser and optical sciences.  
Carl H. Galloway Chair for Excellence in Business: Created in 1986 to honor Carl Galloway, a pioneer in telecommunications. The purpose is to enhance scholarly activity in teaching and research in the College of Business Administration. Chair: Shelby Gerking.  
Charles N. Millican Chair in Community Arts: Created in 1985 to support the work of an internationally recognized scholar in laser and optical sciences. Chair: George I. A. Stegeman.  
Darden Eminent Scholar Chair in Restaurant Management: Created in 1990 to develop a program of excellence in restaurant management. This chair, the first of its kind in the country, also serves as a critical resource for the hospitality industry. Chair: William Fisher.  
William S. and Alice M. Jenkins Chair in Community Arts: Created in 1986 to enable UCF to design and oversee programs covering art administration, art therapy, and art education within the Central Florida community.  
Sociology
establish an endowed chair in nursing education. This is the first chair to be established at the Daytona Campus. It is designed to improve nursing education and ease the shortage of nurses. Chair: Angeline A. Bushy.

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

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

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

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

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

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

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

**Florida Photonics Center of Excellence Eminent Scholar Chair:** Created in 2003 to strengthen and support research in nanophotonics. Chair: Dennis Deppe.

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

**Beat M. and Jill L. Kahel Endowed Chair in Oncology Nursing:** Created in 2005 to support work with researchers and clinicians in helping to improve the lives of cancer survivors. Chair: Karen O. Chatlos Foundation Endowed Fund. Created in 1996 to support a professor in minority health issues, award scholarships to nursing students, purchase supplies, and maintain the equipment at Community Nursing Centers and the Nursing Skills Laboratory. Chair: Emma "E.J." Brown.

**University Ombuds Office**

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

**Office of Undergraduate Studies**

Chair: Michael J. Schell: 407-823-4197.

The Office of Undergraduate Studies supports the colleges in their curricular planning, collaborates with faculty curricular oversight, works with faculty and administrators to assure the strength of university wide programs such as general education, and advocates for an undergraduate education that offers an outstanding learning experi-
Information Technologies and Resources
Vice Provost: Joel L. Hartman, MH 350, Phone 407-823-6778
http://reach.ucf.edu/it

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

University Libraries
http://library.ucf.edu
Director of University Libraries: Barry B. Baker
LR 512; 407-823-2978
Associate Director for Administrative Services: Frank R. Allen
LR 512; 407-823-2564
Associate Director for Public Services: Margaret K. Scharf
LR 512; 407-823-2564
Associate Director for Collections and Technical Services: Jeannette A. Ward
LR 502; 407-823-2575
Assistant Director for Systems and Technology: Selma K. Jaskowski
LR 512; 407-823-5444


University Libraries offers a variety of information resources and services. An extensive print resource collection includes 1.6 million volumes, 16,500 journal subscriptions, 2.9 million microforms and 40,000 media titles. The libraries’ rapidly growing electronic resources include 362 databases, 45,000 e-books, and 9,200 electronic journals. The library is a partial depository for United States and Florida government publications.

The main library is open 105 hours per week. Operating hours are available on the Web site: http://library.ucf.edu or by calling (407) 823-2756. Over 200 computer workstations are available for public use on all five floors of the main campus library, including 35 laptops equipped with wireless cards that can be checked out for use anywhere in the library building. Wireless technology enables patrons who have laptops with wireless cards to connect to the Library’s electronic resources and to the Internet from anywhere in the main library building. The Library also has two classrooms outfitted with 41 computer workstations for hands-on instruction in the use of electronic resources.

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

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

Services are provided for people with disabilities. By using WebLUIs, students can determine the availability of needed books and telephone the Library to request that book’s materials be retrieved from the shelves and held for them at the circulation desk. A workstation equipped with Jaws and ZoomText software is available, as well as a Kurzweil reading machine. In collaboration with the University’s Office of Student Disability Services and the Florida Bureau of Blind Services, the library staff will assist students in the use of equipment and software needed to use library resources.

Primary source material is available throughout the library and is owned by other libraries worldwide. Most book resources, which cannot be easily replaced, include but are not limited to books, manuscripts, historic public records, ephemera, photographs, and art. The Libraries’ digitization projects continue to make more of these exciting and unique materials available online. The World Wide Web. The Libraries partners with other university libraries and local institutions in Central Florida Memory, Florida Heritage, and similar projects to provide digital access to special and historic images and documents.

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

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

Additional library collections are available at the Brevard Community College/UCF Joint-Use Libraries in Cocoa and Palm Bay, the Daytona Beach Community College Joint-Use Library in Daytona Beach and the UCF Southlake (Clermont) Joint-Use Library. The university partners with local community colleges to provide complete information services, including materials processing and checkout at these regional sites. All locations have electronic access to WebLUIs and to University resources on the Web. Courier and intercampus loan services make the main library’s collections available to UCF students at all regional campus sites. For more information see the web site at http://library.ucf.edu/Locations.htm.

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

The Office of Instructional Resources (OIR) supports UCF administrators, faculty, and staff with multimedia design and production, digital literacy, webcasting, ISDN video, video over IP, interactive video course delivery, video production, audio production, digital photography, graphics, and a full range of multimedia classroom support services. OIR manages UCF’s interactive video network, which includes eight originations rooms on the Orlando campus and sixteen receive rooms at regional campus locations. OIR’s facilities include the Digital Image Processing Lab (DIPL), located in the Research Pavilion (Suite 169) in the Central Florida Research Park. In association with its community partners, DIPL offers UCF faculty access to state-of-the-art digital imaging technologies including digital-image processing, digital document scanning, and CD-ROM production. OIR’s Faculty Multimedia Center (CL1 202) provides multimedia production and training resources for faculty using Macintosh and Windows personal computer systems. OIR’s Interactive Video Classroom (CL1 320) is used for videoconferencing and ITV course origination. The room also provides faculty with an excellent location for training in ITV production and delivery skills. OIR also supports more than 340 advanced multimedia classroom and eight interactive video origination rooms located throughout the campus and our Regional Campus locations. OIR provides UCF with a full array of distributed-learning delivery systems, including an interactive video network that serves eight rooms on the Orlando campus; UCF Downtown; UCF at Daytona, UCF at Cocoa, UCF at Palm Bay, UCF at MetroWest (Valencia), UCF at South Lake (Clermont), UCF at Kennedy Space Center, UCF
University of Central Florida

at South Orlando, and other regional locations. OIR provides cable television delivery on the Orlando campus, ISDN and IP-based videoconference equipment and services.

Course Development and Web Services

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

Course Development and Web Services (CDWS) is responsible for supporting UCF's institutionally-sponsored online programs such as online learning (http://online.ucf.edu), the main Web site (http://www.ucf.edu), myUCF portal (http://my.ucf.edu), and enterprise applications such as AskUCF (http://ask.ucf.edu), and eCommunity (http://ecomunity.ucf.edu). CDWS also conducts faculty development for initiatives identified as priorities for support through an institutional planning process. Examples of faculty development include IDL6543 (http://reach.ucf.edu/~id6543), ADL5000 (http://reach.ucf.edu/~ad5000), and Essentials (http://reach.ucf.edu/~essentials). CDWS offers support for students taking online courses through the Teaching Online Web site (http://team.ucf.edu), and offers support for faculty through the Teaching Online Web site.

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

Intercollegiate Athletics

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

Graduation Rate Disclosure

The completion or graduation rate is the rate at which full-time, certifi cate-seeking or degree-seeking undergraduate students who are enrolling for the first time at the institution, and who have not previously enrolled at any other institution of higher education, either complete or graduate from their programs. The freshman retention rate for Fall 2004 students is 83 percent. The information is public and available for review in the UCF Library.

UCF Arena

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

University Bookstore

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

Transit Services

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

The Student Transportation Shuttle Service provides transit needs for student apartment communities, as well as traveling through the Research Park area. This service consists of fixed routes operating on 15-minute intervals. All students, faculty, and staff are eligible to ride the shuttle at no per-trip cost. Additionally, UCF has available intracampus travel on the shuttle’s Black and Gold line. Each route has ten stops on campus. Shuttles operate continuously from 7:00 a.m. until 4:00 p.m. Please refer to our webpage at http://parking.ucf.edu/shuttle.html or call 407-823-6767.

The Orlando-UCF Shakespeare Festival

The Orlando-UCF Shakespeare Festival is Central Florida's classical theater, presenting professional artists in a variety of world-class plays. An Equity company, the Festival presents a 6-play Signature Series of Shakespeare and other works; a Theater for Young Audiences Series; PLAYFEST, the Orlando Festival of New Plays; and innovative educational programming that includes "The Young Company", "Shakespeare Alive", and "Shakespeare experience". Performances are presented at two theaters in the Lowndes Shakespeare Center and in the amphitheater at Orlando's Lake Eola Park.

In its sixteenth season, the Festival has achieved a position of national recognition, attracting artists from across the country. The Festival has been featured in such national publications as The New York Times, Southern Living, Theater Week, Backstage and Southern Theater. Internships and independent studies for UCF students and alumni are available with the Festival in many departments. For more information, contact Artistic Director, Jim Helsinger, 812 E. Rollins St., Suite 100, Orlando FL 32803, 407/447-17, Fax 407/447-1701.

The UCF Alumni Association

The University of Central Florida Alumni Association develops and maintains alumni awareness and support of the university. While alumni comprise the core member group, membership in the UCF Alumni Association is available during all phases of UCF life. Children up to age 12 can have fun through the Junior Jousters Program. UCF students can join 4EVER KNIGHTS, offering them valuable interaction with alumni. Parents of UCF students can stay connected through Parent Memberships.

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

- Money-saving benefits, discounts, and services from buying UCF logo merchandise to saving money on auto, home or health insurance.
- Social and networking opportunities at Networking Knights, AlumKnight Outs, cultural events, pre-game events, KnightFest, community volunteer projects, travel getaways and road trips.
- Career assistance through a partnership with UCF Career Services & Experiential Learning with free access to the GOLD Connection, including job listings and on-campus recruiting.
- Access to UCF facilities such as the Recreation and Wellness Center, the UCF Library, and the UCF Student Union (great for weddings or meetings).
- Timely information via Pegasus, the award-winning alumni magazine (mailed 6 times per year), the Inside Scoop e-newsletter and access to member-only areas of www.ucfalumni.com, our Web site.

The UCF Alumni Association offers many volunteer opportunities and awards more than $40,000 in scholarships to eligible students every year. To join, or for more information, stop by the UCF Alumni Association located in the Research Pavilion, 12424 Research Parkway, Suite 301; call 407-UCF-ALUM (823-2586); toll-free (800) 336-ALUM; or connect anytime at www.ucfalumni.com.

UCF Foundation, Incorporated

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

Vice President for Marketing, Communications and Admissions: Thomas Huddleston, Jr., Millican Hall, 210; 407-823-2232

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

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

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

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

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

Undergraduate Admissions

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

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

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

Student Financial Assistance

Executive Director: Mary H. McKinney
MH 120
http://finaid.ucf.edu

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

Student Outreach Programs

Director: Rhonda C. Hall; OTC 600; 407-823-5580
http://www.reachout.sdes.ucf.edu

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

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

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

Vice President for Student Development and Enrollment Services: Maribeth Ehasz, MH 282; 407-823-2226
http://www.sdes.ucf.edu

Introduction

The Division of Student Development and Enrollment Services (SDES) is an integral part of the University of Central Florida. Reporting to the provost, SDES is responsible for the administration and management of programs, services, facilities, and activities designed to support learning both inside and outside the classroom.

The division is committed to providing an integrated program of opportunities that emphasizes key transitions, student and academic support services, and personal growth. Some of these include: orientation, first year academic advising, academic exploration, registration, multicultural services, personal counseling, housing and residence life, health services, career development, the student union, recreation services, student activities and organizations, tutoring, learning assistance, and leadership development.

Key values that guide our conduct, performance, and decisions are outlined in "The UCF Creed." They are integrity, scholarship, community, creativity, and excellence. We are committed to collaborate and partner with other academic and administrative units to create a meaningful and rewarding collegiate experience for all students.

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

Academic Development and Retention

Associate Vice President: Mark Allen Poisel; MH 282

The Unit of Academic Development and Retention facilitates successful student transitions and experiences by providing the foundation and support for their academic, personal and career success.

Academic Services for Student-Athletes (ASSA)

Director: Mark Gumble; WDSC 110, SABRE Centre; 407-823-5895
http://www.assa.sdes.ucf.edu

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

ASSA services include:

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

http://www.adr.sdes.ucf.edu
services:
- Preparing student-athletes in their career planning and development;
- Assisting learning-disabled student-athletes with assessments and accommodations; and
- Providing student-athletes with computer access and services.

**National Consortium for Academics and Sports (NCAS)**
Director: Suzi Katz; MSC 110; 407-823-5243
http://www.ncasse.org

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

**Student Success Center**
Assistant Vice President, DeLaine Priest; PH 216; 407-823-2137; http://ssc.sdes.ucf.edu

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

**Academic Exploration Program (AEP)**
407-823-5322; http://aep.sdes.ucf.edu

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

**First Year Advising and Exploration (FYAE)**
Director: Gloria Laureano; PH 116; 407-823-3789
http://firstyear.sdes.ucf.edu

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

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

**Multicultural Academic and Support Services (MASS)**
Interim Director: Terry Exum; PH 102; 407-823-2716; http://www.mass.sdes.ucf.edu

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

**Student Academic Resource Center (SARC)**
Interim Director: Terry Exum; PH 113; 407-823-5130
www.sarc.sdes.ucf.edu

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

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

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

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

SARC’s professional academic advisors provide support for students in the Pegasus Success Program and the College Achievement Program (CAP).

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

**University Testing Center (UTC)**
Assistant Director, Rebecca Pietry; PH 107; 407-823-5109
www.sarc.sdes.ucf.edu

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

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

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

**Transfer and Transition Services**
Director: Charlene A. Stinard; PH 221; 407-823-2231
http://transfer.sdes.ucf.edu

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

- General advising and referral for transfer students before and after they enroll at UCF;
- Advising for transfer students who are undeclared majors, undecided, or changing majors;
RESOURCES & DEPARTMENTS

Current information about university programs and policies including entrance and exit requirements;
- Assistance in resolving issues once students have transferred;
- Transition advising services for FTICs with 45+ credit hours, currently enrolled sophomores, juniors and seniors who are undeclared or changing majors;
- Peer Mentors provide transfer advising services;
- Written articulation agreements and inter-institutional relationships between the University of Central Florida and secondary schools, community colleges or universities;
- Articulation workshops and conferences involving instructional, advising, and administrative personnel from the university, community colleges, and other institutions;
- For more information, visit the Transfer and Transition Services website at http://transfer.sdes.ucf.edu.

Orientation Services
Director: Joe Ritchie; PH 218; 407-823-5105
www.orientation.sdes.ucf.edu

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

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

Career Services & Experiential Learning (CSEL) offers a comprehensive range of services to help UCF students of any major reach their academic and career goals with a talented staff of career and experiential learning specialists. These comprehensive services are designed to help First Year through Graduate students with all phases of career development and applied learning experiences to include:
- Major and Career Choices
- Academic and Career Information
- Experiential Learning Opportunities (Co-op, Internships, Service Learning)
- Resumes and Cover Letters
- Interviewing Skills
- Job Search Strategies
- Employment Assistance (Career Fairs, On-Campus Recruiting, Job Postings and Resume Referrals)
- Graduate School Information

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

Counseling Center
Director: TBA.; CC; 407-823-2811
http://www.counseling.sdes.ucf.edu

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

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

Registrar's Office
University Registrar: Dennis J. Dulniak; MH 161 407-823-3100
Registration HelpLine: 407-823-5533  
E-mail: registrar@mail.ucf.edu; website: http://www.registrar.ucf.edu

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

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

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

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

UCF, being a member of SOC (Service Members Opportunity College) provides credit for military training and education. Credit is awarded for regionally accredited schools and courses only. Transfer credit is not awarded for experience, military skills level and/or special certifications. In addition, no credit is awarded for Basic Military Training. Transfer credit is awarded per the recommendations of the American Council on Education (ACE) Guide, based upon courses and/or training listed on the DD Form 214, SMARTS, ARTS, or other official military records. U.S. Air Force veterans must coordinate with the Community College of the Air Force to provide official CCAC transcripts to the Undergraduate Admissions Office.

Students eligible for VA educational benefits may also be eligible for a VA deferment of tuition and fees. The VA Deferment due date is contained in the "Academic Calendar." Students eligible for financial aid adequate to cover tuition and fees are not eligible for this deferment. For Fall and Spring semesters, undergraduates must carry at least 12 credit hours for full-time VA benefits, 9-11 credit hours for three-quarter time benefits, and 6-8 credit hours for half-time benefits. Five credit hours or less will be reimbursed at the cost of tuition and fees or quarter-time depending on VA Chapter. Check with Veterans Services for Summer term course load requirements.

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

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

Division Of Student Development And Enrollment Services

- Resources & Departments
- Orientation Services
- Career Services & Experiential Learning (CSEL)
- Counseling Center
- Registrar's Office
- Veteran Services

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

**Student Disability Services (SDS)**

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

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

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

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

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

**Administrative Services**

Associate Vice President: Sharon Ekem; MH 282; 407-823-3168
http://www.admin.sdes.ucf.edu

**Budgets and Personnel Support**

Director: David L. Pavlonsis; MH 282; 407-823-1045
http://www.asfbusinessoffice.ucf.edu

**Activity and Service Fee Business Office**

Director: Joseph Scarro; SU 215; 407-823-5548
http://www.asfbusinessoffice.ucf.edu

The Activity & Service Fee Business Office provides a variety of services to UCF students. The office processes purchase requests for most Activity & Service Fee Agencies and all Student Government allocations. We provide financial training workshops to student organization officers and their faculty/staff advisors. The office also provides a variety of equipment for check out to any student FREE of charge.

In addition, our office manages the operation of the Student Government Computer Lab, which is located in SU 208. The Student Government Computer Lab has 41 computer stations available and is the only lab that provides FREE printing to currently enrolled students. Our office also manages the Student Government Ticket Center which sells a variety of discounted tickets to local amusement parks, movie theaters, and is also an authorized TicketMaster Retail Outlet.

**Alcohol and Other Drug Prevention Programming**

Director: Tom Hall; Counseling Center; 407-823-0879
www.aod.sdes.ucf.edu

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

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

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

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

**Creative School for Children**

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

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

**REACH Health and Peer Education Program**

Coordinator: Keri Nola; LS 716; 407-823-5457

The REACH Health and Peer Education Program provides a wide array of programs, activities, classes, and events designed to give students the current information they need to make low risk and responsible choices concerning college health related issues. Professional peer health educators encourage healthy living and lifestyle choices. Services at REACH include HIV/AIDS confidential and anonymous needle free testing, which includes pre and post test counseling, a sexual health risk assessment and education. We also offer a three hour elective credit course, HLP 2701, which is full of fun and useful information, and can lead to becoming a paid "peer educator." Additionally, the ADAPT (Alcohol and Drug Awareness Prevention Training) class is available for students who have violated campus alcohol and other drug policies and/or have gotten into alcohol and other drug difficulty with law enforcement. We strive to help students make the most of their college experience.

**Assessment and Planning**

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

This office provides the Vice President and units of Student...
Division Of Student Development And Enrollment Services

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

Campus Life

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

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

Housing and Residence Life

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

Regularly enrolled single students paying registration fees for a minimum of nine semester hours may apply for on-campus University-owned housing. The residential communities- Apollo, Libra, Lake Claire Courtyard Apartments, Nike, Hercules, and the Convocation Center Apartments- house approximately 4,300 students. On-campus residence halls offer double occupancy rooms with a shared bath in suite-style configurations. Single rooms with shared bath are available in the apartment facilities. Because of the limited amount of space, the University does not have a mandatory housing requirement. No on-campus accommodations are available for families or married couples.

Apartment-style housing is available at the Rosen College of Hospitality Management. Hospitality Management majors who attend classes at the Rosen College may utilize the 392 bed facility that is adjacent to the college.

Approximately 3,100 beds are reserved for new, incoming freshmen in specific facilities. Current residents occupy most of the remaining space. Applications for housing can be accepted only from those who have been admitted into the University. Therefore, those desiring to reside on campus should apply for admission to the University as soon as possible. On-campus housing cannot be offered to all freshmen due to limited capacity.

Priority for room assignment for a new applicant is based on the date of receipt of the completed housing application. Applicants should read the housing application carefully before submitting the completed application with the appropriate pre-payment to the Department of Housing and Residence Life.

The housing academic term contract, when issued for the fall semester, is a two-semester obligation (fall and spring semesters). Summer term contracts begin with the summer term of a student's first academic year and end with the summer term of their fourth academic year. A complete list of prizes is located on the LINK website at http://www.ucf.edu/ucf linking/university/aboutcampus/dining/offcampus.html.

The LINK Program works with various UCF student support departments and programs to identify educational programs that New Knights should be participating in throughout their first year. These co-curricular programs complement the in-class academic experience and help first-year students develop the skills necessary to be successful in college.

Learning and Interacting with New Knights (LINK) is a first-year experience program designed to assist first-time-in-college students with their transition to UCF by connecting them to the campus community through educational programming and activities. The main focus of the LINK Program is to get New Knights out having fun, meeting people, and getting connected to UCF. Through LINK, New Knights will be exposed to experiences that will enhance their academic experience and overall success and satisfaction at UCF.

The LINK Program encourages students to participate in these educational programs, New Knights receive points for every LINK program in which they participate. These points are known as LINK Loot. First-year students can acquire LINK Loot by participating in a LINK program. New Knights receive LINK Loot points by either swiping their UCF ID card or signing their name on an attendance sheet at beginning or end of each LINK program. First-year students can use their LINK Loots point to bid on prizes at the LINK Auction. The LINK Auction is held at the end of each fall and spring semester. A complete list of prizes is located on the LINK website at http://www.ucf.edu/link.

Off-Campus Student Services (OCSS)

Assistant Vice President and Director: Jimy Watson; HAB 101; 407-823-6505; http://www.housing.ucf.edu/ocss

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

Off-Campus Student Services also provides UCF students who live off-campus with information regarding a variety of on-campus programs and services. The OCSS fosters a supportive environment for off-campus students by providing an advocacy for resolving problems, “on the spot” or through campus referrals, and exploring other available resources for students. Students are encouraged to utilize...
Division Of Student Development And Enrollment Services

the services offered by the Off-Campus Student Services Office, and to become acquainted with the many benefits the campus has to offer. UCF Regional Student Services

Assistant Vice-President and Director: A.J. Range

PH 221; 407-823-3867

Interim Director, Southeastern Region Campus Life: Jim Smith

Director, Eastern Region Campus Life: Diana L. Weidman

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

Student Government
Assistant Directors of OSG/SGA Advisors: Shane Juntunen & Christa Coffey; SU 214; 407-823-2191

http://www.sga.ucf.edu

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

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

All students are encouraged to take an active role in Student Government. For information outlining how to become involved with Student Government, contact the Student Government Association in lobbying for students' rights on local, state and national government levels.

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Executive Services

Director: Robert Faust; 407-823-2701

http://www.shs.ucf.edu

Recognizing the importance of lifestyle in health and the prevention of disease, Student Health Services combines quality care for illness and accidents with an aggressive health education and lifestyle enhancement program. A Student Wellness Advocate Team (SWAT) enhances the health promotion efforts of the Wellness Center.

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

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

Optional health and accident insurance may be purchased by response to the mailers or by contacting the Office of Student Development and Enrollment Services, Student Government, or the Health Center Business Office (at 407-823-8125). Please note that optional health and accident insurance is not part of the Student Health Services program, but is designed to provide for health coverage needs that are beyond the scope of Student Health Services, such as hospital referrals. Charges incurred outside the Student Health Center are the responsibility of the student.

Confidential testing for HIV (AIDS virus) is offered by the Student Health Center and a program for anonymous testing is available elsewhere by calling the REACH HIV AIDS Education Office at UCF-AIDS (407-823-2437). Information concerning these programs may be obtained through the Student Health Center (407-823-2701) during regular hours.

When the Student Health Center is closed, students may obtain information and help from the Health Center telephone message, its website (see above) or, if the situation is urgent, by calling the UCF Police Department.

Student Leadership Programs

Director: Gary Morgan-Muskin; SU 207; 407-823-2223

http://www.slp.sdes.ucf.edu

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

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

LEAD Scholars Program

Director: Gary Morgan; SU 208; 407-823-2223

http://www.lead.sdes.ucf.edu

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

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

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

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

Rosen College of Hospitality Management Campus Life

Director: Tony Perry

9907 Universal Blvd., Suite 201 L

407-903-8072

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Division Of Student Development And Enrollment Services

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

Campus Faiths and Ministries
Director: Brad Crawford; RS 102; 407-823-5337
http://www.ucm.sdes.ucf.edu

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

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

By offering a wide range of services designed to assist as well as educate students in resolving their disputes, the Office of Student Rights and Responsibilities (OSRR) combines Student Legal Services, Dispute Resolution Services, and the Office of Student Conduct. OSRR provides a forum that contributes to the individual growth and development of the student’s knowledge of community responsibilities, dispute process, conflict resolution skills, and University student conduct rules. Our resources are more effectively used by combining and referring within the judicial knowledge base that exists within these three services.

Dispute Resolution Services
Coordinator: Patty Farris; FC 150; 407-823-3477
http://www.drs.sdes.ucf.edu

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

Student Conduct
Assistant Director: Dana Juntunen
FC 154; 407-823-2851
http://www.osc.sdes.ucf.edu

The Office of Student Conduct addresses alleged violations of the “Rules of Conduct” contained within the student handbook, The Golden Rule. This office is also responsible for advising students of their rights during the Student Conduct Review Process, dean’s certification, and student eligibility checks. The Office of Student Conduct annually publishes the student handbook, The Golden Rule, which contains more detailed information on student life. Copies may be obtained at SRC 154, or may be viewed on the web at http://www.goldenrule.sdes.ucf.edu. Students are urged to take advantage of the many services and educational programs available through the Office of Student Conduct and the Office of Student Rights and Responsibilities.

Student Legal Services
Director: Patricia A. MacKown; FC 155; 407-823-2538
http://www.stulegal.ucf.edu

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

Office of Student Involvement
Director: Kerry Welch; SU 208; 407-823-6471
http://www.GetInvolvedUCF.com

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

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

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

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

The Recreation and Wellness Center staff also operate the Lake Claire recreation area, located just north of Greek Row. Lake Claire offers picnic facilities, watercraft, and a nature trail. The facilities can be reserved for group activities by calling 407-823-5011.

Intramural Sports
Associate Director: Jim Wilkening; Recreation and Wellness Center; 407-823-2408; http://www.imsports.ucf.edu

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

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

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

The Student Union is the meeting place on campus and provides the campus community with a variety of meeting places, offices, programs, and services. The Union is home to a great variety of restaurants, including Joffrey’s Coffee, Smoothie King, Steak Escape, Uncle Al’s Famous Hotdogs, Subway, Sbarro, Baja Burrito Kitchen, Mrs. Field’s, Pretzel Time, Wackadoo’s Grub and Brew along with a new restaurant to be announced later. Retail stores include Park Avenue CD’s, Greek Unique, KnightStop Convenience Store, College Optical, and the UCF Computer Store. Other services located in the Union are the SGA Ticket Center, U.S. Postal Center, Kaplan Test Services, and ATM’s from SunTrust, Bank of America, and the UCF Credit Union. For information, call 407-823-0001.
Undergraduate Admissions

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

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

The Office of Undergraduate Admissions seeks to attract students who are motivated, creative, and committed to academic excellence. The office will accomplish this through personal contacts, strategic communication, information management, and targeted recruitment. The office is dedicated to providing quality customer service through effective teamwork and through the development of collaborative partnerships with both internal and external communities. The office administers several programs for prospective students and parents, including daily tours and information sessions, open houses, area receptions for admitted students, and high school and community college visits by admission counselors. It also provides the opportunity to meet one-on-one with an admission counselor on campus. Please contact the office at 407-823-3000 or visit our website for further information. Office hours are: Monday/Thursday 9:00 a.m. to 7:00 p.m., Tuesday/Wednesday/ Friday 9:00 a.m. to 5:00 p.m.

Campus Visit Experience

Information sessions and campus tours are available through our “campus visit experience”. All freshmen (ftic) and transfer prospective students and their families are encouraged to participate. The Campus Visit Experience, which includes both an information session and tour of the campus, begins at the University Welcome Center at 10:00 a.m. and 2:00 p.m., Monday through Friday, except holidays. Reservations are encouraged and can be made by visiting our website at www.admissions.sdes.ucf.edu. Group tours of up to 80 or special requests may be accommodated and can be requested by visiting our website. Meetings with admissions counselors to discuss your particular concerns about admission to the University are available by appointment. You may contact the admissions office at 407-823-3000 or visit us at our website. Information sessions and campus tours are also available for students interested in our Rosen College of Hospitality Management. Please contact us at 407-903-8000 for further information.
Orientation

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

Admission Categories

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

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

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

Freshman Applicants

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

High School Diploma

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

Entrance Examination Scores

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

High School Academic Units and Grade Point Average

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

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

Total Units: 18

Applicant Eligibility

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

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

Total Units: 18
Undergraduate Admissions

If the High School GPA is:  | Minimum test scores must be: |
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* No minimum score required.

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

- Admission to the University is limited by space availability. The degree of competition for space depends on the number and qualifications of those who apply for admission. To increase the chance of admission, high school students should present credentials that are stronger than the minimum requirements for consideration as listed above. If the number of qualified applicants exceeds the number that the University is able to enroll, a waiting list will be established.

- A student applying for admission who does not meet established requirements may bring to the University other important attributes or special talents and may be admitted if, upon appeal and in the judgment of the Admissions and Standards Committee, the student can be expected to do successful academic work. The University will provide appropriate advising for each student admitted under this alternative.

- Students who have been enrolled in dual enrollment courses will be required to have a minimum “C” average (2.0 GPA) for all completed dual enrollment course work.

- A student must have two years of one foreign language in high school or the equivalent (minimum eight semester hours) at the post-secondary level, to be offered admission.

Dual Enrollment Applicants

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

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

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

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

Transfer Applicants

UCF welcomes transfer applications to the University. Students should submit either the University of Central Florida Undergraduate Admissions Application or apply online at [http://www.admissions.sdes.ucf.edu/underapplink.asp](http://www.admissions.sdes.ucf.edu/underapplink.asp), and arrange to have official transcripts sent from all colleges attended. The Undergraduate Admissions Office computes a grade point average (GPA) for each institution attended, as well as a cumulative GPA on all college courses attempted. This computation does recognize plus or minus grades effective Fall 2001, but only recognizes grade forgiveness when it is used as part of an awarded State articulated Associate in Science degree or an Associate in Arts degree from a Florida public community college or Florida public university.

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

Transfer students are required to complete, at least, 30 hours in residence at UCF to earn a bachelor’s degree. In addition, students must complete 48 hours in residence at UCF to be eligible to receive baccalaureate honors recognition at all colleges completed.

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

Transfer Applicants With Fewer Than 60 Credit Hours

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

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

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

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

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

1. Admission to one of the eleven state universities, except to “limited access” programs (programs that have additional admission requirements);
2. Acceptance of at least 60 credit hours by the state universities toward the baccalaureate degree;
3. Transfer of equivalent courses under the statewide Course Numbering System;
4. Acceptance by the state universities of credit earned in accelerated programs (e.g., CLEP, AP, PEP, Dual Enrollment, Early Admission, and International Baccalaureate);
5. No additional General Education Core requirements;
6. Advanced knowledge of selection criteria for limited access pro-
Students registering for classes in the Limited Non-Degree Seeking status are subject to the following regulations:

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

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

International Applicants

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

- Submit the completed UCF admissions application form with the required $30.00 application fee (check or money order in U.S. currency). An online application is available on our web site at http://www.admissions.sdes.ucf.edu/underapplink.asp.
- Students who attended an international secondary school that uses a grading and evaluation system different from the U.S. system will need a document-by-document evaluation of the secondary school record in English. This record, which should include performance evaluations, grades for work completed over a period of at least three years, as well as any certificates earned, should be sent to one of the agencies listed below. They will translate it if necessary, evaluate it, and then send their evaluation directly to UCF. A grade point average should be calculated and must appear on this evaluation.
- If the student has attended any international universities, an English translation and evaluation of work completed at each institution will be necessary. Transcripts should be sent to one of the agencies below for a course-by-course evaluation. Please note that if 60 or more semester hours have been earned at a post-secondary institution, it will not be necessary to submit the secondary school records.
- Results of the TOEFL (Test of English as a Foreign Language) may be required of students whose first language is not English. Information about this examination can be obtained from TOEFL, P.O. Box 6151, Princeton, New Jersey, 08541-6151.
- Results of the SAT or ACT will be required if the student has earned less than 60 semester hours of college credit.

Information regarding these examinations may be obtained from the College Board (SAT), P.O. Box 592, Princeton, NJ, 08540 or from ACT, P.O. Box 414, Iowa City, Iowa, 52243. While there are no specific minimum score requirements on these examinations for admission, they are used in conjunction with other required credentials, and students should prepare sufficiently to achieve the highest possible score on these exams.

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

Educational Translations and Evaluations
Foreign diplomas must meet the requirements specified in Florida Statutes, section 229.814. UCF will accept English translations and evaluations of academic credit from these agencies:
- Josef Silny and Associates, P.O. Box 248233, Coral Gables, FL 33124, (305) 273-1616
- World Education Services, P.O. Box 745, Old Chelsea Station, New York, NY 10113-0745, (212) 966-8311

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

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

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

Accredited Institutions
For the purposes of this Undergraduate Catalog “Accredited Institutions” means those colleges and universities accredited by any of the following six regional associations:
- New England Association of Colleges and Schools;
- Middle States Association of Colleges and Secondary School, Commission on Institutions of Higher Education;
- North Central Association of Colleges and Schools, Commission on Colleges and Universities;
- Northwest Association of Secondary and Higher Schools, Commission on Higher Schools;
- Southern Association of Colleges and Schools; and
- Western Association of Schools and Colleges Accreditating Commission for Senior Colleges and Universities and Accrediting Commission for Junior Colleges.

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

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

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

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

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

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

Baccalaureate Honors
Transfer students should be aware that eligibility for graduation with baccalaureate honors requires the completion of a minimum of 48 semester hours at UCF and is based upon an overall grade point average. For more details, refer to “Academic Honors” within the “Academic Regulations and Procedures” section of this Undergraduate Catalog.
Office of Student Financial Assistance
Executive Director: Mary H. McKinney
Millican Hall, Room 120
Switchboard: 407-823-2827
Appointment: 407-823-5285
Fax: 407-823-5241
E-mail: finaid@mail.ucf.edu
Web site: http://finaid.ucf.edu
Office Hours:
Monday: 9:00am - 7:00pm
Tuesday, Wednesday, Friday: 9:00am - 5:00pm
Thursday: 1:00pm - 7:00pm
(Hours subject to change during holidays and semester breaks.)

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

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

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

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

Application Procedures
- The FAFSA can be filed electronically at www.fafsa.ed.gov. A link is provided on the Web site and on My.UCF.edu
- Messages from the federal processor should be reviewed thoroughly;
- Review all correspondence, follow instructions on the Student Aid Report, and follow through promptly. Delays can be costly as well as frustrating;
- Federal Regulations require that some students be selected for verification. If selected, students will be asked to provide documents supporting the information submitted on the FAFSA. Sometimes subsequent requests for data may be necessary after initial submissions are reviewed. Prompt response to requests for additional documentation will expedite completion of this process;
- Offered federal funds and other need-based financial aid are not considered firm until verification is complete and all necessary corrections have been made.

Specific Eligibility Requirements and Conditions for Receiving Financial Aid
- Students must be accepted and classified as degree seeking at UCF in an eligible program;
Financial Information

- For purposes of financial aid, enrollment is based solely on classes that count toward degree completion. If a class is not required to earn a degree, then the hours of that class are not used to calculate a student's enrollment. To ensure enrollment in sufficient hours for the various financial aid programs, please refer to the Program Eligibility Charts on the Web site.
- Students must maintain UCF's Standards for Satisfactory Academic Progress.
- Students are required to inform financial aid of any additional sources of aid they expect to receive beyond those listed on the award notification. Any subsequent awards or income may necessitate a revision of the financial aid award/s. This includes, but is not limited to, any private scholarships or third party tuition payment/ waivers, such as the Florida Pre-Paid Program.
- Students may not receive aid in excess of their cost of attendance.
- Students must not be in default on any federal educational loan or owe repayment on a federal grant at this or any other institution.
- Students must provide all information requested for the completion of their file. If selected, verification must be completed within specified deadlines and prior to the receipt of all federal and most state and institutional funds.
- Students must notify the Office of Student Financial Assistance of any changes in their housing status, household size, or family members in college from that listed on their FAFSA.
- Students must reapply annually for financial aid.
- Students must provide all information requested for the completion of their file. If selected, verification must be completed within specified deadlines and prior to the receipt of all federal and most state and institutional funds.
- Students must notify the Office of Student Financial Assistance of any changes in their housing status, household size, or family members in college from that listed on their FAFSA.
- Students must reapply annually for financial aid.

Helpful Hints

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

School Costs

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

<table>
<thead>
<tr>
<th>(Full-time Fall/Spring)</th>
<th>Living with Parent</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition/ Fees</td>
<td>$3,282.00</td>
<td>$3,282.00</td>
</tr>
<tr>
<td>Books/Supplies</td>
<td>$888.00</td>
<td>$888.00</td>
</tr>
<tr>
<td>Room/Board</td>
<td>$4,454.00</td>
<td>$8,528.00</td>
</tr>
<tr>
<td>Personal Exp.</td>
<td>$2,210.00</td>
<td>$2,210.00</td>
</tr>
<tr>
<td>Total (In State)</td>
<td>$12,426.00</td>
<td>$16,500.00</td>
</tr>
<tr>
<td>Non resident Tuition/ Fees</td>
<td>$12,868.00</td>
<td>$12,868.00</td>
</tr>
<tr>
<td>Total (Out of State)</td>
<td>$25,294.00</td>
<td>$29,368.00</td>
</tr>
</tbody>
</table>

Financial Aid Programs Available at UCF

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

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

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

Scholarships are awarded based on various criteria, including financial need, campus/community activities, leadership positions, academic success, and work experience. Scholarships are designed to reward, encourage, and assist students in pursuing academic excellence and leadership roles.

Award Notification

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

Student awards will be based upon the student’s financial need, the amount of available funds, the number of UCF students who qualify for aid, and the date the student completes the application process. The amounts listed on the award notifications are estimates based on full-time enrollment. For purposes of financial aid, enrollment is based solely on classes that count toward degree completion. If a class is not required to earn a degree, then the hours of that class are not used to calculate a student's enrollment.

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

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

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

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

Deferrals of Tuition and Fees

Financial aid awards will normally result in a deferral of tuition and fee payments. Deferrals allow for the time lag that normally occurs between the date that tuition and fees are due and the date on which financial aid disbursements are made, which is normally two to three weeks after the semester begins. Students are responsible to pay any amount owed to the university that is not covered by estimated aid and/or other resources by the payment deadline. The deferral process occurs automatically if the student is meeting all general eligibility requirements and has enrolled in sufficient hours for the financial aid program/s. Please refer to the Program Eligibility Charts on the Web site for more information. Students should use myUCF to obtain up-to-date information. Since awards are subject to change, deferrals are also subject to change. Deferrals based on estimated Stafford loans will be canceled prior to the beginning of the semester if the student has not completed the loan application process. Students must drop classes prior to the end of add/drop in order not to be fee liable for those classes. If students do not drop their classes, a financial aid deferral may keep the classes active even if they are never attended.
### Financial Information

<table>
<thead>
<tr>
<th>Financial Aid Program</th>
<th>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>Federal Pell Grant</td>
<td>Before June 30 2005</td>
<td>Prorated based on hours</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Federal SEOG (Supplemental Educational Opportunity Grant)</td>
<td>March 1</td>
<td>12</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>UCF Grant</td>
<td>March 1</td>
<td>12</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>FSAG (Florida Student Assistance Grants)</td>
<td>March 1</td>
<td>6</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Federal College Work Study</td>
<td>March 1</td>
<td>6</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FWEP (Florida Work Experience Program)</td>
<td>Varies</td>
<td>6</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Federal Stafford Loan Program</td>
<td>Posted each term at UCF</td>
<td>6 in UCF classes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Federal Perkins Loans</td>
<td>March 1</td>
<td>6</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Scholarships</td>
<td>Varies round</td>
<td>Varies</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Federal Unsubsidized Stafford Loans</td>
<td>Posted each term at UCF</td>
<td>6 in UCF classes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Federal Parent Loans for Undergraduate Students (PLUS)</td>
<td>Varies</td>
<td>6 at UCF</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### Disbursements

Financial aid disbursements begin the second week of each term. Students should be aware of this, so they are prepared to use their personal savings for anticipated expenses such as books and supplies at the beginning of the term. The Short Term Advance is available for students to help with these expenses. The application is available for download prior to each term, so that funds may be available as early as the first day of classes. Students who apply late for financial aid should be prepared to cover their own living expenses, out-of-pocket, well into the semester. When financial aid disbursements, the funds first apply towards university debts. The remaining balance is refunded to the student one of two ways. If a student has visited the SunTrust Bank on campus and has linked the account to the UCF Card, then the refund is deposited into the student’s account. Otherwise, a check is mailed to the student’s current mailing address listed on myUCF.

#### Satisfactory Academic Progress (SAP)

Federal regulations require the University to establish Standards of Satisfactory Academic Progress as a general eligibility requirement for financial aid. A student must maintain satisfactory academic progress in a course of study regardless of whether the student previously received financial aid.

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

- Complete a minimum of 70% of the attempted hours taken during the course of the academic year. Compliance of this requirement is checked at the end of each spring term. If students fail to meet this requirement or were not enrolled during the last monitoring period (fall/spring), a review of total hours taken at UCF will occur to determine if a 70% completion rate was attained for all attempted UCF course work. If students fail to pass both of these reviews, the student will be placed on Satisfactory Academic Progress cancellation status, effective the following term. Students on probation must meet standards each term.

- Graduate within the number of hours allowed by the Satisfactory Academic Progress policy. Students are allowed a specific number of UCF attempted hours, based on their academic level at the time of admission to UCF. (see chart next page)


#### Re-establishing Eligibility after Cancellation

Any student with extenuating circumstances, i.e., death of a relative, an illness or injury of the student, etc.), who is placed on cancellation status may appeal to the Financial Aid Review Committee for reinstatement based on his/her special case.
If the student was canceled for the failure to complete 70% of the attempted hours and since cancellation, he/she has brought up the percentage to a minimum of 70%, the student may appeal to the above committee for reinstatement, at that time.

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

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

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

Independent Students
You will be classified as independent for financial aid purposes only if at least one of the following applies:
- you are 24 years of age or older by December 31 of the award year;
- you are married;
- you are or will be enrolled in a master’s or doctoral program (beyond a bachelor’s degree) during the school year;
- you have children who receive more than half their support from you;
- you have dependents (other than your children or spouse) who live with you and who receive more than half their support from you and will continue to receive more than half their support from you through June 30th of the school year;
- you are an orphan or ward of the court (or were a ward of the court until age 18); or
- you are a veteran of the U.S. Armed Forces. ("Veteran" includes students who attended a U.S. service academy and who were released under a condition other than dishonorable.)

Dual Enrollment
Students who have been approved to take classes at another institution might have those hours counted toward meeting financial aid requirements for some programs at UCF. Dual enrollment will not meet eligibility criteria for institutional aid programs. Courses must meet some major or general education requirements to be calculated as part of student aid eligibility. All of the following documents must be submitted to the Office of Student Financial Assistance on or before the withdrawal deadline of the semester in which aid is to be disbursed:
- 1. Advisor Certification Form with all required signatures;
- 2. A copy of the Fee Invoice and class schedule confirming that the classes and hours enrolled match the Transient Student Form;
- 3. A completed Consortium Agreement Form to be completed by the transient school financial aid office.

Dual enrolled students must make arrangements to pay tuition and fees at the visited school since there is no system for deferral of those tuition and fees. In addition, it is the student’s responsibility to insure that the visited school promptly provides UCF with academic transcripts, confirming that the attempted hours are completed. Transcripts or grades should also be submitted to the Office of Student Financial Assistance. This will help avoid academic progress problems. Students who expect to receive funds under any of the federal loan programs must enroll for a minimum of six undergraduate hours at UCF in UCF classes to meet eligibility requirements. Students may not receive financial aid from two institutions at the same time. Students must decide which of the two institutions is the primary school at which they are degree seeking and apply for aid there. Any inaccuracy will result in a mandatory repayment to one of the two schools for the overpayment.

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

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

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

Student Rights and Responsibilities
Students have the right to full information about the financial aid programs available at UCF, our application procedures and aid deadlines, and the criteria used to determine a financial aid package. Students have the right to appeal decisions made by the Office of Student Financial Assistance. Students have the right to equitable treatment of their financial assistance applications. Although each student’s case is analyzed individually, eligibility standards are applied uniformly without regard to race, gender, religion, creed, national origin, or physical handicap. All students’ records are confidential. It is the student’s responsibility to review and understand all information and instructions, meet all deadlines, and provide all information and documentation accurately. Errors and omissions can cause delays and prevent students from receiving assistance. Misrepresentation is a violation of the law.

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

General Information
The Office of Student Accounts is here to serve the students who attend our university by maintaining accurate financial records and communicating with students concerning their accounts.

The Student Accounts Office is responsible for:
- Tuition and Fee Assessment/Refunds (Student Accounts, MH107)
Financial Information

- Processing Payments (Cashier’s Office)
- Overdue payment and institutional loans collection (Loans and Collections)

Schedule of Fees*
(www.iroffice.ucf.edu/character/current_tuition.html)

*Note: 2006-2007 tuition and fees had not been established at the time of this publication. Rates for the 2006-2007 academic year will be available in early July 2006. Fees are subject to change without notice.

Tuition and Fees: Tuition and fees are established by the state legislature and University Board of Trustees and are subject to change without notice. Fees are affected by residency status. Tuition and fees are charged per semester or term for main campus, regional campus, and continuing education courses. Tuition is assessed on a per credit hour basis. Students classified as zero-hour registration students are assessed one credit hour at the Florida Resident Tuition rate at the course level for which the student is registered.

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

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

Limited Non-Degree Enrollment Classes Payment guidelines for Limited Non-Degree enrollment classes can be found on the “Registration Form for Non-Admitted Students.” It is the student’s responsibility to officially drop or withdraw from courses so as to avoid additional financial obligations.

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

Payment Procedures
Payment must be received or postmarked no later than the fee payment deadlines specified to be considered on time. Non-cash payments (checks and money orders) placed in the 24-Hour Depository by the official fee payment deadline will be considered on time.

Acceptable forms of payment:
Cash (Cashier’s Office)
Checks (Cashier’s Office, E-Pay, or Mail)
Credit cards (Cashier’s Office, or E-Pay)

E-Pay -- https://my.ucf.edu -- E-Check or credit card -- nonrefundable $10 convenience fee per transaction
Mail -- Do not send cash -- Please include the student’s PID on checks or money orders
Address payments to: University of Central Florida
P.O. Box 918449
Orlando, FL 32891-8449

Payment Locations & Hours:
Cashier’s Office - Main Campus - MH110 -- Mon & Thurs 8:30 am to 7:00 pm and Tues, Wed & Fri 8:30 am to 4:00 pm (407) 823-2614
Cashier’s Office - Main Campus - John T. Washington Center -- Mon through Fri 8:30 to 4:00 (407) 823-0828/0829
Cashier’s Office - Brevard Campus (GCC Cocoa Campus) - BLDG 11 Room 204-- Mon through Fri 8:00 am to 3:30 pm (321) 433-7615
Cashier’s Office - Daytona Beach Campus - Main Campus -- Mon through Thurs 8:30 am to 4:00 pm and Fri 8:00 am to 12:00 noon (no cash) (386) 506-4073
Cashier’s Office - Palm Bay Room 115- Mon through Fri 8:30 am to 4:00 pm (no cash) (321) 433-5187/5186
24-Hour Depository - Millican Hall at Reflection Pond Entrance - (no

2005-2006 Fee Schedule*

<table>
<thead>
<tr>
<th></th>
<th>Florida Resident</th>
<th>Non-Florida Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matriculation Fee</td>
<td>$71.57</td>
<td>$71.57</td>
</tr>
<tr>
<td>Undergraduate</td>
<td>$201.54</td>
<td>$201.54</td>
</tr>
<tr>
<td>Graduate</td>
<td>$201.54</td>
<td>$201.54</td>
</tr>
<tr>
<td>Non-Resident Fee</td>
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<td>$416.88</td>
</tr>
<tr>
<td>Undergraduate</td>
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<tr>
<td>Graduate</td>
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<td>$600.44</td>
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<tr>
<td>Building Fee</td>
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<tr>
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<tr>
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<tr>
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<tr>
<td>Undergraduate</td>
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</tr>
<tr>
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<tr>
<td>Financial Aid Fee</td>
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<tr>
<td>UCF Activity and Svc Fee</td>
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</tr>
<tr>
<td>Undergraduate</td>
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<td>$9.37</td>
</tr>
<tr>
<td>Graduate</td>
<td>$9.37</td>
<td>$9.37</td>
</tr>
<tr>
<td>UCF Athletic Fee</td>
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<td>$11.09</td>
</tr>
<tr>
<td>Undergraduate</td>
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</tr>
<tr>
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<tr>
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<td>Total Per Hour Fees</td>
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2005-2006 Repeat Course Schedule *

<table>
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<tr>
<th></th>
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<tbody>
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<tr>
<td>Capital Improvement Fee</td>
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<td>$2.44</td>
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<td>TOTAL PER HOUR FEES</td>
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</tr>
<tr>
<td>Graduate</td>
<td>$712.64</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Other Fees: Resident and Non-resident *

UCF Campus Card Fee (per academic year) ........................... $10.00
Campus (ID) Card Replacement Fee ..................................... $15.00
Health Fee (per term) .................................................. $6.60 per credit hour
Minimum charge: $30.00
Maximum charge: $99.00
Material and Supply Fee (per term; approved courses only – varies per course) .................. $5.00-$45.00
Equipment Fee (per term, for use of equipment) Business majors......$15.00; Less than full time: $7.50
Equipment Fee (per term, for use of equipment) Music majors...........$30.00; Less than full time: $65.00
International Student Service Fee (per term) ......................... $50.00
Late Registration Fee (students who initially register during Late Registration) .................. $100.00
Late Period Fee (failure to pay, defer or present waiver for fees by payment deadline) ....... $100.00
Returned Check Fees (checks returned for any reason):
Check amounts up to $50.00 ................................................ $25.00
Check amounts over $50.00 and less than $300.00 ........................ $30.00
Check amounts over $300.00 ............................................ $40.00 or 5%, whichever is greater

Zero Hour Registration: Students registering for zero credit hours pay for a minimum of one credit hour at the level they are classified. Fees are subject to change without notice.

Note: 2006-2007 tuition and fees were not available at the time of publication. Rates for the 2006-2007 academic year will be available in early July 2006.

2005-2006 Repeat Course Schedule*
Cashier's Office- Rosen College Campus Room 201A Hours to be determined…. (no cash/debit cards) (407)903-8187
Credit card payments may be made online, through myUCF E-Pay (https://my.ucf.edu), or at any of the Cashiers’ Offices. A mandatory, nonrefundable $10 convenience fee will be charged each time a student chooses to pay tuition or other state mandated fees with a credit card through E-Pay.

Other Forms of Payment
Tuition and fees may be partially or completely paid by Financial Aid, Florida Prepaid, Tuition Waivers, or Department Grants. The student is responsible to pay any amount that is not covered by these forms of payment by the fee payment deadline as described under Payment Procedures.

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

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

The standard plan will pay $79.90 per credit hour (graduate or undergraduate level) for the 2005-2006 academic year. The plan does not cover the local fees of $24.80 per credit hour, the health fee, material/supply fees, or the UF ID Service and Access fee. The local fee plan, which is indicated on the Florida Prepaid Tuition Plan card, will cover $100.36 per credit hour and the health fee. For further details on the Florida Prepaid Tuition Plan please visit our website www.fa.ucf.edu and click Forms. Then click on Student Services. Scroll down to Florida Prepaid Tuition Plan Procedures. Note: the 2006-2007 tuition rates had not been established at the time of publication.

Tuition Waivers
State of Florida Employees Tuition Waiver
Full-time state employees may be allowed to enroll for up to six (6) credit hours of eligible instruction per term on a space-available basis without payment of tuition and fees. State Employee registration occurs on the last day of regular Registration for each term, at the time specified on the Academic Calendar www.ucf.edu/info/acad_calendar.php for each term. Should the employee register for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will be invalid and the employee will be liable for all applicable fees. The tuition waiver cannot be used for courses that have increased costs. These employees register by each term for the fee payment deadlines. Employees may obtain the “State Employee Waiver Form” from the Registrar’s Office (MH 107; Telephone: (407) 823-3100).

Financial Information

Tuition and Fees for Senior Citizens
Persons 60 years of age or older who meet Florida residency requirements may register to audit classes on a space-available basis without payment of tuition and application fees. Registration is on a space-available basis; see the appropriate term’s Academic Calendar www.ucf.edu/info/acad_calendar.php for registration dates and times. The tuition fee waiver cannot be used for courses that require increased costs (such as thesis, dissertation, and direct-award independent study). A Florida Residency Affidavit is required to establish Florida residency. A completed “Student Health History” form must be filed prior to registration. Inquiries should be directed to the Registrar’s Office (MH 161; Telephone: (407) 823-3100).

Refund of Fees
A refund of fees will be processed under the conditions noted below. The student must submit a written appeal for a refund or other appeal action to the University within six months of the close of the semester/term to which the refund or other appeal action is applicable. Any debts to the University will be deducted from the refund, up to the full amount.

Full Refund Eligibility
The following conditions allow a full refund: 1) A class is dropped before the end of the Add/Drop period; 2) Cancellation of a course by the University; or 3) The student is denied admission for any reason to a course offered by the University.

Partial Refund (25%) 25% of tuition and fees is refundable when the student withdraws completely from the University prior to the end of the fourth week of classes during a 16- or 17-week semester, or at the end of the first quarter of classes during a Summer session.

Exceptional Circumstances
Refunds for exceptional circumstances are available upon withdrawal from one or more courses. Up to 100% of tuition and registration fees are refundable if due to circumstances determined by the University to be exceptional, including, but not limited to, sickness, death, involuntary call to military service, or University administrative error.

Direct Deposit
Students are strongly encouraged to establish direct deposit with the University. Direct Deposit prevents delays due to lost checks or class withdrawals. All refunds from students’ accounts will be directly deposited into their checking accounts. Funds are usually available within 24-48 hours after disbursement, and enrollment only takes a few minutes. To enroll, sign in at and click on Student Self Service. Click on the Student Accounts icon, then click on Direct Deposit and follow the instructions.

Past Due Accounts
All financial obligations to the University must be met. Failure to meet obligations can result in the withholding of all aid, and educational leave, may be allowed to enroll for up to six (6) credit hours of eligible instruction per term on a space-available basis without payment of tuition and fees. UCF Employee registration occurs on the last day of regular Registration for each term, at the time specified on the Academic Calendar www.ucf.edu/info/acad_calendar.php for each term. Should the UCF employees register for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will become invalid and the UCF employee will be liable for all applicable fees. Any UCF employee who uses an Employee Tuition Waiver for approved courses must submit a completed and signed Tuition Waiver Form to the UCF Student Accounts Office (MH 107) by each term’s fee payment deadline. See the Academic Calendar www.ucf.edu/info/acad_calendar.php for each term for the fee payment deadlines. Prior to enrolling into courses each term, refer to the Human Resources web site at www.hr.ucf.edu/web/forms/benefits/tuitionwaiver.pdf for eligibility requirements, course restrictions, and the waiver application form. Students are encouraged to list alternate courses on their waiver form to substitute for preferred courses that are completely filled. Courses that are not listed on the waiver form cannot be waived.

Late Fees
Late Payment Fees apply to students who do not pay their fees on
Financial Information

who do not pay their fees (or obtain a full fee deferment) by the pay- 
ment deadline. The Late Payment Fee is $100 per semester.

Late Registration Fees are charged to Students who enroll following the 
close of Add/Drop for the term, who re-register, or who enroll for the 
first time that term during Late Registration and Add/Drop. The 
Late Registration Fee is $100.00 per semester.

Fee Appeals

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

Petition. Students must submit their petitions to Student Accounts 
(MH 107) and may appear before the Committee (not mandatory).

Forms faxed to Student Accounts should be addressed Attn: Fee 
Appeals (407) 823-6476.

Holds

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

Florida Residency for Tuition Purposes

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

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

And

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

And

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

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

a. Declaration of Domicile (Note: the Declaration of 
Domicile will support a claim of residency for tuition 
purposes only after a period of 12 months from the 
date that the Clerk of the Court notes that the decla-
ration was sworn and subscribed to them.)

b. Proof of purchase of a home in Florida in which the 
student resides;

c. Proof that the student has maintained residence in 
the state for the preceding year (e.g., rent receipts, 
employment records).

2. Documentation establishing bona fide domicile in Florida 
which is not temporary or merely incidental to enrollment in 
a Florida institution of higher education. The following 
documents will be considered evidence of domicile even 
though no one of these criteria, if taken alone, will be con-
sidered as conclusive evidence of domicile:

a. Declaration of Domicile;

b. Florida voter registration;

c. Florida vehicle registration;

d. Florida driver license;

e. Proof of real property ownership in Florida (e.g., 
deed, tax receipts);

f. Verification of permanent employment in Florida by 
the employer, employment records, or other employ-
ment-related documentation (e.g., W-2 paycheck 
receipts), other than for employment normally pro-
vided on a temporary basis to students or other tem-
porary employment. The document must show 12 
consecutive months of Florida employment prior to 
the first day of classes of the term for which the stu-
dent requests Florida residency;

g. Proof of membership in or affiliation with community 
or state organizations or significant connections to 
the State;

h. Proof of continuous presence in Florida during peri-
ods when not enrolled as a student;

i. Proof of former domicile in Florida and maintenance 
of significant connections while absent;

j. Proof of reliance upon Florida sources of support;

k. Proof of domicile in Florida of family;

l. Proof of admission to a licensed practicing profes-
sion in Florida;

m. Any other factors peculiar to the individual that tend 
to establish the necessary intent to make Florida a 
permanent home and that the individual is a 
bona fide Florida resident, including the age and 
general circumstances of the individual;

n. Proof of graduation from a high school located in 
Florida.

3. No contrary evidence establishing residence elsewhere;

4. Documentation of dependent/independent status (not-
ialized copy of most recent IRS tax return)

Or

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

Be a member of the Armed Forces on active duty sta-
tioned 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 univer-
sity in Florida, a spouse or dependent,

Or

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

Or

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

Or

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

Or

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

Or

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

Or

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

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

Or

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

Or

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

And

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

Residency Reclassification

The offices of Undergraduate Admissions and Graduate Studies determine first term at UCF residency for tuition purposes for all newly admitted students. Thereafter, the Registrar’s Office will review student requests for changes in residency. The Registrar’s Office cannot review student requests for residency reclassification to be effective with the student’s first term of enrollment.

To request a residency review, the student must submit a completed “Residency Reclassification Request Form” and supporting documents to the Registrar’s Office (MH 161). This form is available either at the Registrar’s Office or online at http://registrar.ucf.edu. The reclassification form must be accompanied by all documents that support the student’s Florida residency claim.

Residency reclassification requests are subject to Florida Statute 1009.21, Florida State Board of Education Administrative Code 6A-10.044, and State Board of Education rule 6C-7.005. In addition, University policy requires students requesting residency reclassification to provide documentation establishing that they have income or personal sources to meet financial obligations of attendance and living expenses. Contact the Registrar’s Office at 407-823-3100 for additional information regarding all residency reclassification requirements.

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

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

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

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

Financial Information
ACADEMIC ADVISING

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

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

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

Freshman (First Time in College - FTIC)
Every incoming freshman is assigned a professional first year academic advisor in one of the five offices listed below. These advisors also collaborate with the University’s colleges, and schools and link students to advisors in various academic programs. The assignment of a first year advising office will be based on the specialized services of each program and the student’s particular needs. Please know that although you have been assigned to an advisor in one of the offices, you are not limited to seeking help there. Contact the assigned advising office if you need to change advising offices.

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

New FTIC Students can expect to:
1. Attend a mandatory Orientation that will provide:
   a. Initial academic advising in a group setting and preparation for the first semester, including schedule planning and registration
   b. An assessment of high school grades, entrance and placement test scores, and AP, IB and CLEP credit
   c. An awareness of expectations for success at UCF
   d. Information about key academic policies and important deadlines
2. Connect to their first year advising office during the first semester according to the following designated priority order:
   a. Academic Services for Student-Athletes (ASSA) - for student athletes (WDSC 110)
   b. Student Academic Resource Center (SARC) - for participants in the College Achievement Program (CAP) or Pegasus Success Program (PH 113)
   c. Multicultural Academic and Support Services (MASS) - for all students in the SOAR program (PH 102)
   d. Transfer and Transition Services (TTS) – for freshman students entering UCF with 45 or more college credits earned through accelerated mechanisms from AP, IB, CLEP, and/or dual enrollment courses (PH221)
   e. First Year Advising and Exploration (FYAE) - for students not covered by any of the previous categories (PH 116)

Through these offices students can access general education advising, the academic exploration program for undeclared students, academic support, registration assistance, and on-going information about University policies and procedures throughout the first year experience. For more information about the first year advising offices and their services, please see the "Student Development and Enrollment Services" chapter of this Undergraduate Catalog.

3. Participate in programs and advising activities that will promote a successful transition from high school to the university.
4. Transition to an academic advising office within the college of the student’s chosen major at the beginning of the sophomore year.

The Burnett College of Biomedical Sciences
New students will:
Meet with the Office of Student Service and Advisement (OSSA) advisors in group settings during Orientation to:
1. Discuss degree program requirements;
2. Understand career options of the major program of study; and,
3. Plan an appropriate first semester class schedule.

Continuing students will:
2. Meet with an advisor in the Office of Student Services and Advisement (OSSA) every semester to check progress toward graduation and selection of program courses;
2. See their faculty advisor during the first few months of each semester to check on possible career and research opportunities;
3. See an advisor in the Office of Student Services and Advisement (OSSA) if pending majors in limited-access Medical Laboratory Sciences program during the first few weeks of each semester to check progress toward eligibility for application to the major;
4. View a SASS Degree Audit, the registration time, and search for classes (once the class schedule is available) through (missing a word)?
5. Register at the scheduled appointment time. Complete all schedule changes by the end of the published add/drop period; and,
6. File an “Intent to Graduate Form” in the Department of Molecular Biology and Microbiology, Office of Student Services and Advisement (OSSA), by the end of the term prior to the term in which graduation will occur.

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

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

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

Pre-Health Professional Planning
Preprofessional advisement deals primarily with application and admission procedures.

Admission to a health professional school is highly competitive. Pre-health professions students are expected to be high achievers, and to obtain good grades with heavy loads and rigorous course combinations. Most professional schools expect applicants to present at least a “B” average and to carry a minimum of 15 semester hours each term, with the exception of Summer terms.

Each student is urged to carefully select a degree-granting major. This will not only allow one to become more competitive for admission, but also to prepare for an alternate career in the event admission to a professional school is denied. Any degree-granting program may be selected as a major; however, the science majors generally lend themselves most adequately to pre-health professions preparation as their curriculum includes many courses required for admission to most professional schools.
Additionally, prudent use of elective hours in the curricula will permit other appropriate pre-health professions courses to be obtained. All pre-health professions students are strongly encouraged to participate in the activities of one or more of the student health related organizations.

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

All pre-health professions students should complete the following courses (many of which are applicable to the GEP):

<table>
<thead>
<tr>
<th>Course</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Biological Sciences</td>
<td>BSC 2010C, 2111C</td>
</tr>
<tr>
<td>Genetics</td>
<td>PCB 3063</td>
</tr>
<tr>
<td>General Chemistry</td>
<td>CHM 2045C, 2046, 2046L</td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td>CHM 2210, 2211, 2211L</td>
</tr>
<tr>
<td>Microbiology</td>
<td>MCB 3203</td>
</tr>
<tr>
<td>Calculus</td>
<td>MAC 2233 (prefer MAC 2311 2312)</td>
</tr>
<tr>
<td>Physics</td>
<td>PHY 2053C, 2054C (prefer PHY 2048, 2048L, 2049, 2049L)</td>
</tr>
<tr>
<td>Statistics</td>
<td>STA 2023</td>
</tr>
</tbody>
</table>

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

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

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

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

New students will:
1. Meet in a group setting during Orientation with representatives from the College of Arts and Humanities to discuss college policies and procedures;
2. Meet with representatives of the department of the major to discuss major requirements and career opportunities, and plan a class schedule;
3. Refer to OASIS any questions pertaining to general education requirements, AP and CLEP credit, Gordon Rule, university credit hour requirements, university policies and procedures;
4. Register for classes at a central location; and,
5. Check their "Fee Invoices" to ensure accuracy of their class schedule.

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

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

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

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

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

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

New students will:
1. Meet with the Engineering and Computer Science Academic Affairs representative in a group setting during Orientation to:
   a. Review the College of Engineering and Computer Science academic policies and procedures;
   b. Discuss degree program requirements;
2. Meet with a faculty advisor in the department of their major to:
   a. Understand the career options of the major;
   b. Plan an appropriate first semester schedule; and
   Students are encouraged to seek advisement on determining a major as soon as possible. Failure to declare a major by the end of the first year may result in a delay of graduation.

Continuing students will:
1. See the department of their major during the first week of the term to be assigned a faculty advisor. Computer Science majors will be assigned a faculty advisor once they have passed the Computer Science Foundation Exam. Until that time, Computer Science majors will be advised by the Computer Science Undergraduate Advising Office in CSB 201C;
2. Set up an appointment with an advisor to review your academic progress and to develop an academic plan. Review this plan each term with the advisor prior to registration;
3. Use the flow diagram or four year plan received during orientation to progress through the degree requirements;
4. View a SASS Degree Audit, the registration time, and search for classes (once the class schedule is available) through myUCF at https://my.ucf.edu;
5. Register at the scheduled appointment time in myUCF, or in person in the Engineering and Computer Science Academic Affairs Office (AAO). Complete all schedule changes by the end of the published Add/Drop period;
6. Submit a written schedule plan signed by their AAO advisor each term if you have been placed on an engineering advisement hold. This plan must be submitted in person to the Engineering and Computer Science Academic Affairs Office each time a student uses the registration process. and,
7. File an "Intent to Graduate Form" in the Engineering and Computer Science Academic Affairs Office by the withdrawal deadline of the term prior to the term in which the student intends to graduate.

College of Health and Public Affairs

New students will:
Meet college advising representatives in group settings during Orientation to:
1. Discuss degree program requirements;
2. Understand career options of the major program of study; and,
3. Plan an appropriate first semester class schedule.
4. If the student is accepted in a major, he or she should check in the department of their major for their assigned faculty advisor during the first few weeks of the semester.

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

Rosen College of Hospitality Management

New students will:
Meet college advising representatives in group settings during orientation to:
1. Discuss degree program requirements;
2. Understand career options and major programs of study;
3. Plan an appropriate first semester class schedule; and,
4. Review a SASS Degree Audit through myUCF.

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

College of Sciences

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

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

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

Regional Campus System

New transfer students may meet with a professional or faculty advisor prior to applying to UCF and at any time while enrolled to discuss programs and requirements. Students will meet with faculty/professional advisors in a group setting during orientation to:
1. Discuss degree program requirements;
2. Understand career options of the major program of study; and
3. Plan an appropriate first semester class schedule.
   Any student who has not been awarded an AA from a Florida public community college or state university and has not completed the UCF General Education requirements should make an appointment as soon as possible with an advisor at the appropriate UCF Regional Campus System location (or the Orlando Campus) to clarify University policies that will affect the student's status and graduation. Continuing students may meet with their advisors on an on-going basis.
   For a list of the academic programs available through the Regional Campus System, see "UCF Regional Campuses" within the "University of Central Florida" chapter of this Undergraduate Catalog.
The following section presents information to help students accomplish a smooth and efficient transfer to UCF. Students transferring with an A.A. from a Florida public community college or state university are guaranteed certain rights and privileges according to the statewide Articulation Agreement. Students transferring without an A.A. from a Florida public institution will want to pay particular attention to UCF’s general education program and how their transfer credits apply to their degree.

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

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

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

- Accurate and current information about university programs and policies including entrance and exit requirements, as well as information concerning:
  - Transfer concerns and questions;
  - Course equivalencies;
  - Common program and course prerequisites;
  - Critical academic and transfer policies;
  - Foreign language requirements;
  - UCF critical dates and deadlines;
  - General advising and referral for transfer students before and after they enroll at UCF;
  - Individual appointments to discuss transfer issues;
  - Written articulation agreements between the university and community colleges;
- Advising for currently enrolled transitioning students who are undeclared majors, undecided or changing majors, and freshmen with 45+ credit hours;
- Transfer Peer Mentor advising services.

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

Why Should I Complete My A.A. Before Transferring From a Florida Public Institution?
Receiving your A.A. from a Florida public institution ensures special benefits guaranteed under the statewide Articulation Agreement. The following are some of the advantages of receiving your A.A.:

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

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

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

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

Admission requirements have changed for students entering the College of Education. The General Knowledge Test (GKT) of the Florida Teacher Certification Examination (FTCE) may now be used as both an admission and graduation requirement for state-approved teacher preparation programs.

The CLAST will continue to be an admission option for students, but does not satisfy graduation requirements.

Transfer Checklist

<table>
<thead>
<tr>
<th>Before Completing the A.A.</th>
</tr>
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</table>
| ____/____ | meet with counselor or advisor for graduation check  
| ____/____ | complete application for graduation  

<table>
<thead>
<tr>
<th>Application for Admission</th>
</tr>
</thead>
</table>
| ____/____ | date submitted  
| ____/____ | date admission status checked at  
|  
| https://My.UCF.edu |  
|  
| ____/____ | date of acceptance  

<table>
<thead>
<tr>
<th>Transcripts (original transcript from all institutions attended)</th>
</tr>
</thead>
</table>
| ____/____ | date transcripts sent from all current and prior institutions  
| ____/____ | date final transcript sent after term completed  

<table>
<thead>
<tr>
<th>Financial Aid/Scholarship</th>
</tr>
</thead>
</table>
| ____/____ | date financial aid application (FAFSA) sent  
| ____/____ | date financial aid notification received from UCF  
| ____/____ | date of SCHOLARSHIP application mailed or transfer notice sent to appropriate office  
| ____/____ | date of SCHOLARSHIP application response  

<table>
<thead>
<tr>
<th>Housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>on-campus</td>
</tr>
<tr>
<td>off-campus</td>
</tr>
</tbody>
</table>
| ____/____ | date application sent (include deposit when required)  
| ____/____ | date accepted  

<table>
<thead>
<tr>
<th>Immunization</th>
</tr>
</thead>
</table>
| ____/____ | date student health form submitted  
| Y N | need immunizations  

<table>
<thead>
<tr>
<th>Foreign Language Requirements</th>
</tr>
</thead>
</table>
| Y N | 2 years/units earned in high school  
| Y N | 8-10 credits earned at the college level  
| Y N | credits to be taken at the university  
| Y N | exempt from foreign language admission requirements  

Note: Although American Sign Language may be used to satisfy the UCF admission requirement, it may not satisfy graduation requirements of the specific major.

<table>
<thead>
<tr>
<th>Program (Major) Requirements</th>
</tr>
</thead>
</table>
| Y N | limited access application  
| Y N | completed prerequisites  
| Y N | met grade point average (GPA) requirements  
| Y N | met minimum cumulative GPA for admission to program of study  
| Y N | met cumulative GPA in courses taken for program of study  
| Y N | met grade requirements for designated courses  
| Y N | audition, portfolio, additional admission requirements met  
| Y N | CLAST exam or alternatives  

<table>
<thead>
<tr>
<th>Orientation:</th>
</tr>
</thead>
</table>
| ____/____ | orientation date at UCF  

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

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

Some baccalaureate degrees require students to demonstrate foreign language proficiency as a graduation requirement; this requirement may be satisfied by college-level course work or testing equivalent to two semesters of college instruction. Some majors require additional proficiency; some departments accept American Sign Language to meet the proficiency. Consult the UCF Undergraduate Catalog for graduation requirements for specific majors. High school courses will not satisfy graduation foreign language requirements. International students required to provide TOEFL scores for admission are considered to have satisfied the graduation requirement.

How Will My Credits Transfer?
All college level credits earned for which official transcripts have been submitted will be compiled into a Transfer Summary Report (TSR), which is available online. The TSR
is the basis for constructing a SASS Degree Audit, which applies earned credits toward your intended degree program. The audit provides you with an assessment of which degree requirements have been met and which remain to be satisfied. You will use the audit to schedule courses that meet your remaining requirements.

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

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

When Do I Pay My Bill?

For students taking courses at UCF for the first time, tuition and fee payments are due by the published deadline. Students can print a copy of their fee invoice online from myUCF (https://my.ucf.edu). A late payment fee of $100 will be assessed on all accounts not paid or deferred by each term’s payment deadline. Please note that you will not be sent a bill. It is up to you to view your invoice through myUCF. Payments may be made at the Cashier’s Office, Millican Hall, room 110, or mailed to:

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

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

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

Can Transfer Students Participate in The Burnett Honors College?

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

Transfer Tips: Office Visits for Transfer Advising

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

Students should:

- Submit your application at least six months in advance. Do not wait until the A.A. is awarded to apply. You can be admitted "contingent upon completion of the A.A." if you meet specific admission requirements. By applying early and being admitted, you will be invited to an early orientation. This means you will register along with native UCF rising juniors.
- Keep a transfer diary. For each contact with UCF, record the name of the person with whom you spoke, the date, and the type of request. Keep a copy of all letters you send and receive.
- Have original transcripts from all institutions you have attended sent directly to the Undergraduate Admissions Office. If you are currently enrolled, send a transcript when applying and a final transcript when classes are completed.
- Attend the earliest Orientation session possible. You will have more course selections and registration choices. You should bring copies of all transcripts (transcripts sent in for admissions purposes are not available for advising during orientation). You are advised and then allowed to register. Tuition and fees are due by the published deadline, before class-

es begin.
- Complete the "Student Health Form." Registration will not be allowed without the completion and approval of this form.
- Complete CLAST if possible; however, you can be admitted without it. Since the A.A. is not awarded without completion of CLAST, privileges provided by the A.A. are not granted (i.e., grade forgiveness, Gordon Rule, and the completion of general education requirements). Without completion of CLAST, but with all general education courses completed, you should request the following statement placed on your transcript: "General Education Requirements Met." Without this statement, you must satisfy UCF’s general education requirements (including Gordon Rule courses).
- Complete the "Free Application for Federal Student Aid" (FAFSA). To be considered for all aid available, your financial aid file should be complete by March 1.
DEGREE REQUIREMENTS

Requirements for Graduation

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

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

Degrees Awarded Posthumously

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

Choice of Catalog (Catalog Year) and Continuous Enrollment

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

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

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

General Education Program (GEP)

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

Courses that fulfill the General Education Program requirements are specified, but in some cases an advanced course in the same discipline may be substituted for GEP requirements. These advanced courses, approved by the Faculty Senate Undergraduate Common Program Requirements Committee, are listed in the section identified as “Alternate Courses: General Education Program.” Students should consult with an advisor before enrolling in an advanced course.

Undergraduate students who have not completed requirements for the Associate of Arts degree and who desire to transfer to another Florida public university can have their transcripts indicate “General Education Requirements Met” upon written request, if they have completed UCF’s GEP requirements with a GPA of 2.0 or better. UCF will accept a similar statement on transcripts received from Florida public community colleges and universities in lieu of completion of the University’s General Education Program. Students enrolled in courses that use the “NC” grade must earn a grade of “C-” (1.75) or better.

General Education Program Learning Objectives

Communications Foundation

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

Cultural and Historical Foundation

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

Mathematical Foundation

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

Social Foundation

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

#### Substitution of Courses: General Education Program and Other Requirements

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

#### Alternate Courses: General Education Program

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

<table>
<thead>
<tr>
<th>GEP Requirement</th>
<th>Acceptable Substitutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 1105 (College Algebra)</td>
<td>MAC 1114, MAC 2233, MAC 2253, MAC 2254, MAC 2311, MAC 2312, MAC 2313</td>
</tr>
<tr>
<td>ECO 2013 (Macroeconomics)</td>
<td>Any higher level ECO course which has ECO 2013 as a prerequisite ECO 2023 (Microeconomics)</td>
</tr>
<tr>
<td>PHY 2053C (Physics)</td>
<td>PHY 2048, PHY 2049, PHY 2054C, PHY 2014C, PHY 5015C</td>
</tr>
<tr>
<td>CHM 1020 (Chemistry)</td>
<td>CHM 2045C, CHM 1023, CHE 1440</td>
</tr>
<tr>
<td>BSC 1005 or BSC 1050 (Biological Science)</td>
<td>BSC 2010C</td>
</tr>
<tr>
<td>GEO 1200 (Geography)</td>
<td>GEO 2370</td>
</tr>
<tr>
<td>CGS 1060C</td>
<td>CGS 2100C, COP 2200, COP 2500C, COP 5020C, COP 5024C, COP 3100C</td>
</tr>
<tr>
<td>STA 2014C (Statistics)</td>
<td>STA 2023, STA 3032</td>
</tr>
<tr>
<td>THE 2000 (Theatre)</td>
<td>THE 2020</td>
</tr>
<tr>
<td>FIL 1001 (Cinema Survey)</td>
<td>FIL 2400, FIL 3401, FIL 3402</td>
</tr>
<tr>
<td>MUL 2010 (Enjoyment of Music)</td>
<td>MUL 2412, MUL 2016, MUL 2720</td>
</tr>
</tbody>
</table>

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

#### Diversity Requirement

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

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

#### General Education Courses:

- ENC 1102 Composition II
- SPC 1600C Fundamentals of Oral Communication

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

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

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

### Communication Foundation

1. ENC 1101 English Composition I  
2. ENC 1102 English Composition II PR: ENC 1101  
3. SPC 1600C Fundamentals of Oral Communication or SPC 1016 Fundamentals of Technical Presentation  
4. COM 1000 Communication

### Cultural and Historical Foundation

1. EUH 2000 Western Civilization I  
2. HUM 2110 Humanistic Tradition I  
3. AMH 2010 U.S. History: 1492-1877  
4. WOH 2102 World Civilization I  
5. WOH 2202 World Civilization II

### Mathematical Foundation

1. MAC 1105 College Algebra  
2. MAC 1114, MAC 2233, MAC 2253, MAC 2254, MAC 2311, MAC 2312, MAC 2313

### Social Foundation

1. ECO 2013 Principles of Macroeconomics  
2. STA 2014C Principles of Statistics

### Science Foundation

1. AST 2002 Astronomy  
2. ASP 2114* Physical Science PR: MAC 1105 or MGF 1106  
3. PHY 2053C College Physics I: MAC 1105 and MAC 1114  
4. THE 2000 (Theatre)  
5. FIL 1001 (Cinema Survey)  
6. MUL 2010 (Enjoyment of Music)  
7. MUL 2016, MUL 2720

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

(Consult your major requirements and advisor.)

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

### Communication Foundation

1. ENC 1101 English Composition I  
2. ENC 1102 English Composition II PR: ENC 1101  
3. SPC 1600C Fundamentals of Oral Communication or SPC 1016 Fundamentals of Technical Presentation  
4. COM 1000 Communication

### Cultural and Historical Foundation

1. EUH 2000 Western Civilization I  
2. HUM 2110 Humanistic Tradition I  
3. AMH 2010 U.S. History: 1492-1877  
4. WOH 2102 World Civilization I  
5. WOH 2202 World Civilization II

### Mathematical Foundation

1. MAC 1105 College Algebra  
2. MAC 1114, MAC 2233, MAC 2253, MAC 2254, MAC 2311, MAC 2312, MAC 2313

### Social Foundation

1. ECO 2013 Principles of Macroeconomics  
2. STA 2014C Principles of Statistics

### Science Foundation

1. AST 2002 Astronomy  
2. ASP 2114* Physical Science PR: MAC 1105 or MGF 1106  
3. PHY 2053C College Physics I: MAC 1105 and MAC 1114  
4. THE 2000 (Theatre)  
5. FIL 1001 (Cinema Survey)  
6. MUL 2010 (Enjoyment of Music)  
7. MUL 2016, MUL 2720

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

Effective Date: Summer 2006

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- Understand how individuals behave and interact with other individuals in their psychological, political, economic and social environments.
- Demonstrate an understanding of science as an empirical attempt to acquire information about the real world, develop possible explanations of these phenomena, and test the explanations by predicting the outcome of future observations.
- Demonstrate an ability to assess the extent to which claims presented as "scientific" satisfy the empirical character of scientific explanations.
- Demonstrate understanding of scientific knowledge and problem solving in a physical or life science.
Other Courses:

- AMH 3421: History of Florida to 1845
- AMH 3423: Florida History 1845-Present
- AMH 3562: Women in American History II
- AML 3283: Contemporary American Women's Fiction
- AML 3615: Harlem, Haiti, and Havana
- ANT 3245: Native American Religions
- ASH 4304: Women China
- CCJ 4463: Cultural Diversity in Criminal Justice
- CCJ 4670: Women and Crime
- CJE 4174: Comparative Justice Systems
- COM 4014: Gender Issues in Communication
- COM 4461: Intercultural Communication
- CPO 3304: Politics of Developing Areas
- EDG 2701: Teaching Diverse Populations
- GEO 3470: World Political Geography
- JST 3401: History of the Jewish People I
- JST 3402: History of the Jewish People II
- LIN 4643: Cross Cultural Communication
- LIN 4XXX: African-American Styles of Communication
- LIT 3354: Ethnic Literature in America
- LIT 3192: Caribbean Literature
- MMC 4300: International Media
- MUL 2710: Music of the World
- NUR 3809: Transitional Concepts in Nursing I
- NUR 3817: Promoting Healthy Communities
- NUR 3816: Promoting Healthy Families Across the Lifespan
- PAD 4446: Multiculturalism in Public Administration
- PLA 4020: Law and Society
- PLA 4830: World Legal Systems
- PLA 4XXX: Employment Discrimination
- POS 3627: Political Science
- POS 4323: Women and Politics
- POS 4622: Politics and Civil Rights
- PUP 3314: Minority Politics
- SOW 3500: Social Work with Minors
- SPW 4772: Black Presence in Contemporary Latin America
- SYD 3800: Sex Roles in Modern Society
- SYP 4323: Social Systems and Diversity
- SYP 4734: Minority Aging
- SYP 4323: Social Systems and Diversity
- THE 3230: Commonality within Cultural Diversity Experienced
- WST 3561: Third Wave Feminism
- WST 3015: Introduction to Women's Studies

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

Exit Exams

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

Foreign Language Proficiency Requirement (Bachelor of Arts Degree)

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

Placement in Language Course

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

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

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

American Sign Language

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

SUS Foreign Language Admission Requirement

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

The Gordon Rule

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

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

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

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

General Education courses that apply to the Gordon Rule Writing Requirement:

- ENC 1101: Composition I
- ENC 1102: Composition II
- LIT 2110: World Literature I
- LIT 2120: World Literature II
- AMH 2100: U.S. History: 1492-1877
- AMH 2020: U.S. History: 1877-Present
- EUL 2001: Western Civilization I
- EUL 2002: Western Civilization II
- HUM 2120: Humanistic Tradition I
- HUM 2230: Humanistic Tradition II
- WOH 2212: World Civilization I
Non-Gen Ed courses that also apply to the Gordon Rule Writing Requirement: All Courses with an AML, ENC, ENG, ENL, and LIT prefix

AHM 3402 History of the South to 1865
AHM 3403 History of the South Since 1865
AHM 3441 History of the Frontier: Eastern America
AHM 3442 History of the Frontier: Western America
AHM 3541 U. S. Military History To 1900
AHM 3561 Women in American History I
AHM 3571 Black American History I
AHM 3800 Canadian History
AHM 4110 Colonial America, 1607-1763
AHM 4130 The Age of the American Revolution, 1763-1789
AHM 4140 Jeffersonian America
AHM 4160 Jacksonian America
AHM 4170 Civil War and Reconstruction
AHM 4201 The Gilded Age and Progressivism
AHM 4231 United States History: 1914-1939
AHM 4270 United States History: 1939-1960
AHM 4311 American Culture I
AHM 4313 American Culture II
AHM 4510 Rise of the United States to World Power, 1776-1914
AML 3031 American Literature I
AML 3041 American Literature II
ANT 3163 Mesoamerican Archaeology
ARH 4450 20th Century Art
ARH 4800 Theory and Criticism of the Visual Arts
ASH 4400 China in 19th and 20th Centuries
ASH 4442 Modern Japan, 19th and 20th Centuries
DAN 3134 Dance History I
EAS 4700C Aerospace Design I
EGN 4412C Interdisciplinary Design I
EML 4501C Engineering Design I
EUH 3122 Medieval Society and Civilization
EUH 3142 Renaissance and Reformation
EUH 3235 Romanticism and Realism
EUH 3242 Modern Europe and the First World War
EUH 3281 Second World War and Rebirth of Europe
EUH 3411 Ancient Rome
EUH 3451 History of Modern France
EUH 3651 War and Society
EUH 4284 Fascism and the Totalitarian Dictatorships
EUH 4405 Hitler's Third Reich
EUH 4500 English History to 1485
EUH 4501 English History: 1485-1815
EUH 4502 British History: 1815-Present
EUH 4571 History of Russia to 1801
EUH 4574 History of Russia: 1801-1917
EUH 4576 History of Russia in the 20th Century
EUH 4620 European Great Powers: 1815-1914
HIS 4130 History and Historians
HUM 3320 Contemporary Multicultural Studies
HUM 3394 Representations of Place and Space
HUM 3401 Asian Humanities
HUM 3431 Ancient Humanities
HUM 3460 Latin American Humanities
HUM 3553 Moses, Jesus and Muhammad
JOU 2100C News Reporting
JOU 3010 Advanced Reporting
JOU 4181 Public Affairs Reporting
JOU 4300 Feature Writing
JOU 4300C Critical Writing
JOU 4308 Freelance Writing
LAH 3130 Latin American History I
LAH 3200 Latin American History II
LAH 3400 History of Mexico and Central America
LAH 3470 History of the Caribbean
NUR 3165 Nursing Research
NUR 3805 Transitional Concepts in Nursing I
PAD 4034 The Administration of Public Policy
PAD 4720 Survey Research in Public Administration
PHI 3100 Ancient Philosophy
PHI 3200 Medieval Philosophy
PHI 3460 Modern Western Philosophy
PHI 3600 Contemporary Philosophy
PHI 3700 American Philosophy
PHI 3805 Research Methods in Philosophy
PHI 3820 Philosophy of Mind
PHI 3920 Philosophy of Cognitive Science
PHI 3941 Philosophy of Pracuticum
PHI 4221 Philosophy of Language
PHI 4312 Philosophies of Embodiment: Mind/Body/Self
PHI 4341 Ways of Knowing
PHI 4804 Critical Theory
PHI 4931 Philosophy in the News
PHM 3401 Philosophy of Law
PHP 3781 African-American Philosophy
PHP 4782 Phenomenology
PLA 3155 Legal Writing
PLA 4935 Capstone: Legal Issues
REL 3131 Religion in America
REL 3432 Roots of Western Mysticism
RTV 4403 Electronic Media, Technology, and Society
SOW 4232 Social Welfare Policies and issues
SOW 4341 Micro-Level Roles and Interventions in Social Work
THE 2304 Script Analysis
TPA 4940 Technical Theatre/Design Internship
TPP 3310C Directing for Theatre I
TPP 4940L Theatre Internship

College Level Academic Skills Test (CLAST)

The College Level Academic Skills Test (CLAST) is designed to ensure that students have achieved communication and computation skills commensurate with successful completion of the lower-division coursework. All students seeking an Associate of Arts or baccalaureate degree from a State of Florida institution are required by the State to satisfy the CLAST requirement. There are several methods by which students may meet this requirement, but applicants for teacher certification can only satisfy the CLAST by earning passing scores on each subtest. Students who have completed 18 or more semester hours are eligible to take CLAST.

Transfer students with more than 60 semester hours who have not taken the CLAST or who have not met the CLAST requirement may be admitted, but they must take the CLAST exam during their first term at UCF. If a student has not met the CLAST requirement by the completion of 36 upper division semester hours, enrollment in future terms at UCF will be restricted until the CLAST requirement has been satisfied.

Students with 60 or more credit hours who have not taken the CLAST may be restricted from future registration. Students who have not passed all four subtests of CLAST may enroll in 36 semester hours of upper division credit. If the CLAST requirement has not been satisfied and the 36 hours of upper division credit have been earned, enrollment in future semesters/terms at UCF will be prohibited until the CLAST requirement has been met. An appeal to continue enrollment may be submitted to the CLAST Petition Committee (PH 106). CLAST is offered statewide once per term. Students must register in advance at the University Testing Center (PH 106). CLAST is offered statewide once per term. Students must register in advance at the University Testing Center (PH 106). A fee will be charged for the computer-adapted CLAST. Information regarding preparation for the CLAST or alternative criteria for meeting the CLAST requirement may be obtained from the Student Academic Resource Center (PH 115) at 407-823-2571. Academic advising offices can answer questions students may have regarding CLAST.

CLAST Waiver Petitions for Students with Disabilities

Students with disabilities may request reasonable accommodations while taking the CLAST. Those who are unable to pass a subtest of the CLAST due to a disability can request that a subtest be waived. The student must be registered with the Student Disability Services Office (SRC 132) and have on file documentation of his or her disability. Contact the Student Academic Resource Center (PH 115) to complete a petition to waive a CLAST subtest. The CLAST Waiver Committee reviews all requests for waivers on a case-by-case basis. For disability registration information, contact Student Disability Services at 407-823-2371. For CLAST waiver petition information and forms, visit http://fyt.sdes.ucf.edu.

Summer Attendance Requirement

A student entering the State University System with fewer than 60
undergraduate Degree Requirements

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

Admission to the Upper Division

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

1. A minimum of 60 semester hours of academic work;
2. The English and mathematics requirements of the Gordon Rule;
3. Passing scores on three of the four parts of the CLAST; and,
4. One year of college instruction in a single foreign language.

(This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

Graduation Application Deadline

Students planning to graduate in the next term must complete the "Intent to Graduate Form" in their college (see the "Academic Calendar" for specific dates). Students who have not applied for graduation by the last day of classes in the term preceding the graduation term may not be listed in the Commencement Program. Graduating students must be enrolled at UCF during the term of graduation. Graduates may contact the Registrar's Office for Commencement ceremony and guest ticket information or refer to http://graduation.ucf.edu.

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

Grad On Track (GOT)

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

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

Correspondence Courses

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

In 1996, the State revised the General Provisions Rule 64-4.002, at the Bureau of Teacher Certification for the State of Florida. Any teacher in the state now can use credit correspondence courses, as appropriate, to apply toward the recertification of the teaching license. Moreover, there is no limit to the number of courses that may fulfill the requirements. The current catalog details enrollment procedures, fees, and course information. A copy may be obtained at no cost by calling or writing to: University of Florida, Independent Study, Suite D, 2209 NW 13th St., Gainesville, FL 32609; 352-392-1711, Ext 200; e-mail: learn@nervm.nerdc.ufl.edu. Website: http://www.doce.ufl.edu.

Double Majors

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

Double Degrees/Second Baccalaureate Degree

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

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

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

Catalog Year Requirements for Double Degrees and Double Majors

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

Dual Usage of Credit Hours

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

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

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

Schedule Web Guide

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

Undergraduate Enrollment Status Credit Hours

| Full Time | 12 or more |
| Three Quarter Time | 9-11 |
| Half Time | 6-8 |
| Less Than Half Time | less than 6 |

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

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

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

Holds
A hold (negative service indicator) may be placed on a student’s records, transcripts, grades, diplomas or registration due to financial or other obligations to the University. Satisfaction and clearance of the hold is required before a release can be given. Students may check for holds on the myUCF system at https://my.ucf.edu. To obtain an immediate release for financial holds, payment to the Cashier’s Office must be made either in cash, credit card, cashier’s check, or money order.

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

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

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

State of Florida Employee Registration
State of Florida employee enrollment into courses for which the employee will seek a tuition waiver will occur on a space-available only basis on the last day of Registration each term at the time specified on the "Academic Calendar," online at http://www.ucf.edu/info/acad_calendar.php. For waiver eligibility and application information, see “Tuition Waivers” within the "Financial Information" chapter of this Undergraduate Catalog.

UCF Employee Registration
UCF employee enrollment into courses for which the employee will seek a tuition waiver will occur on a space-available only basis on the last day of Registration each term at the time specified on the "Academic Calendar," online at http://www.ucf.edu/info/acad_calendar.php. For waiver eligibility and application information, see “Tuition Waivers” within the "Financial Information" chapter of this Undergraduate Catalog.

State Tuition Exemption Program (STEP) (National Guard) Registration
State Tuition Exemption Program (STEP-National Guard) students register on a space-available basis only. Registration is on a space-available basis during the last hours of registration as noted in the "Academic Calendar" online at http://www.ucf.edu/info/acad_calendar.php. For waiver eligibility and application information, see “Tuition Waivers” within the "Financial Information" chapter of this Undergraduate Catalog.

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

UCF Students Attending Another State University
System of Florida Institution

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

UCF Students Attending a Non-SUS Institution

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

Enrollment and Degree Certifications

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

Withdrawal Policy

Withdrawal for each term begins after “Late Registration and Add/Drop” ends. Students may withdraw from a class and receive the notation of “W” until the date noted in the “Academic Calendar” online at http://www.ucf.edu. A student may withdraw from courses using myUCF at https://my.ucf.edu, or by visiting the Registrar’s Office (MH 161), certain college advising offices, or a Regional Campus records office. Students may withdraw by fax at 407-823-5652. Faxed requests must be received by 5:00 p.m. on the last day to withdraw and must include the student’s identification number, the course(s) to be dropped and his or her signature. Students also may send a written request to the Registrar’s Office by mail (to P.O. Box 160114, Orlando, FL 32816-0114). This letter must be time-stamped or postmarked before the published withdrawal deadline and must include the student’s identification number, the course(s) to be dropped and his or her signature. Students seeking to withdraw in person must sign the request and must provide photo-identification. The official date of withdrawal is the date the University receives the withdrawal request. Requests received by mail are processed using the postmark as the official date of withdrawal. Withdrawing from classes may have financial aid, NCAA eligibility or international Visa consequences. Students should seek appropriate advisement prior to withdrawing from a class.

A student is not automatically withdrawn from a class for not attending, nor can an instructor withdraw a student from a class. Upon request the instructor will provide the student with an assessment of the student's performance in the course prior to the last day of withdrawal. No withdrawal is permitted after the deadline except in extraordinary circumstances such as serious medical problems. Unsatisfactory academic performance is not an acceptable reason for withdrawal after the deadline. Students seeking to petition for a late withdrawal should consult Academic Services (MH 210). At the time of the request, Academic Services will ascertain from the instructor whether the student was passing or failing the course. If the student was passing, a “WP” will be recorded on the student’s permanent record; if failing, a “WF” will be entered. Medical and late withdrawals normally are for all courses taken in the semester.

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

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

Following the close of Late Registration and Add/Drop each term, students withdrawing from courses will incur both grade and fee liability. Students with circumstances determined by the University to be exceptional and beyond their control may apply for a cancellation of enrollment and an elimination of fee liability. Exceptional circumstances include, but are not limited to sickness, death, involuntary call to military service, or administrative errors created by the University. Students must submit a petition and all supporting documentation for a Late Drop of courses to Academic Services (MH 210; 407-823-2891) within six months of the end of the term for which the Late Drop is sought.

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

Withdrawal and Academic Behavior Violations

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

Grade System

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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points Per Semester Hour of Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.75</td>
</tr>
<tr>
<td>B+</td>
<td>3.25</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.75</td>
</tr>
<tr>
<td>C+</td>
<td>2.25</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td>1.75</td>
</tr>
<tr>
<td>D+</td>
<td>1.25</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>D-</td>
<td>0.75</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
</tr>
<tr>
<td>NC - No Credit</td>
<td>* Available only in CHM 1032, CHM 2045C, CHS 1440, ENC 1101, ENC 1102, MAC 1105H, MAC 1105, MAC 1114, MAC 2147, MAC 2233, MAC 2241, MAC 2253, MAC 2281, MAC 2281H, MAC 2311, MAC 2311H, and STA 2014C. In these classes NC replaces the use of D+, D and D-.</td>
</tr>
</tbody>
</table>

* Available only in CHM 1032, CHM 2045C, CHS 1440, ENC 1101, ENC 1102, MAC 1105H, MAC 1105, MAC 1114, MAC 2147, MAC 2233, MAC 2241, MAC 2253, MAC 2281, MAC 2281H, MAC 2311, MAC 2311H, and STA 2014C. In these classes NC replaces the use of D+, D and D-.
The Grade Point Average (GPA) is the average number of grade points per semester hour attempted. GPA is computed by dividing the total number of grade points assigned by the total number of semester hours attempted, less hours resulting from NC, W, WP, and I grades.

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

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

<table>
<thead>
<tr>
<th>Course #1</th>
<th>Term Hours</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>B</td>
<td>3.0</td>
</tr>
</tbody>
</table>

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

$$\frac{46.00 \text{ total grade points}}{13 \text{ semester hours}} = 3.54 \text{ GPA for that term.}$$

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

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

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

Grade Change
A grade change is the change of any originally assigned grade to another grade, including grades of “I” and grades earned by administrative withdrawals. Grade changes other than medical withdrawals will be considered only during the semester immediately following the one in which the grade was assigned, except that grades assigned during the Spring semester may be changed during either the following Summer term or Fall semester. A change in grade must be approved by the dean of the college or school. A grade will not be changed after a
Academic Regulations and Procedures

**Presidential’s Honor Roll Certificate (Part-Time Award)**

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

**Dean’s List**

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

**Baccalaureate Honors**

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

1. Attain an overall grade point average (this includes transfer credits) that is in the upper 10 percent of the range established by all students graduating in the same college/school during the previous two years;
2. Honors awarded will be:
   - Summa Cum Laude for those students in the upper 2.5 percent;
   - Magna Cum Laude for those students in the upper five percent, but not in the upper 2.5 percent;
   - Cum Laude for those students in the upper 10 percent, but not in the upper five percent.

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

Consult the Academic Honors list at [http://pegasus.cc.ucf.edu/~irps/character/honorscutpoints.html](http://pegasus.cc.ucf.edu/~irps/character/honorscutpoints.html) for the most up-to-date UCF Honors minimum GPA requirements.

**Grade Forgiveness**

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

1. Grade Forgiveness is limited to two courses;
2. Grade Forgiveness may not be used twice for the same course;
3. Grade Forgiveness may not be used if the original and repeated courses both are taken at UCF;
4. All grades will remain on the student’s official transcript. The original course grade will be marked with a “T” to indicate that the course subsequently has been repeated, or a note describing the initial attempt, and the repeat course grade will be marked with an “R.” The original grade always will appear on the transcript but only the repeated course grade will be calculated into the GPA;
5. If it is determined that the student is ineligible for the Grade Forgiveness policy, neither a refund of fees nor automatic withdrawal from the course will be made;
6. If a student applies for Grade Forgiveness and later withdraws, or receives an "I", "NC" grade in the course, the attempt will count as one of the allotted Grade Forgiveness attempts, and the GPA will calculate both grades.
7. UCF does not honor Grade Forgiveness granted at other institutions unless it is part of an Associate in Arts or a specific statewide articulated Associate in Science degree transferred from a Florida Public Community College or State University. Grade forgiveness awarded within a bachelor’s degree from a Florida State System institution is not honored at UCF. UCF’s Grade Forgiveness policy may not be honored by other colleges, universities, professional schools, or national testing associations;
8. Due to the two-course limit, a student who has repeated two or
more courses at a Florida Public Community College or State University and included those courses in the transfer of an AA or a specific statewide articulated AS degree will not be granted any Grade Forgiveness at UCF;

9. Grade Forgiveness awarded for repeated courses will not retroactively alter any previous academic action (i.e. academic probation or suspension). In addition, no academic records can be altered after a student graduates;

10. Grade Forgiveness is not retroactive and, therefore, may not be used for a course repeated before Fall 1981. If a student who repeated a course at UCF before 1981 and did not use the previous forgiveness policy may repeat the course again. In this case, the lower of the two grades will be forgiven. This special circumstance is the only one in which a student will be allowed to repeat a course more than once; and,

11. With prior approval from the Dean’s office in which the course is offered, a student can only substitute a course different from the original one if: 1) the substitute course reflects a change in prefix, number, hours, or title but not in substance; or 2) the substitute course replaces a course no longer offered by UCF.

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

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

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

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

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

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

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

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

Readmission
A student must apply for readmission to the Registrar’s Office (MH 161) if:
1) the student has not enrolled at UCF for two consecutive semesters (not including the Summer term);
2) the student has been academically suspended from UCF;
3) the student failed to enroll or withdrew from all classes during the readmitted term; or,
4) the student has previously attended, or is currently enrolled at UCF, as “degree-seeking” and desires to pursue a second bachelor’s degree.

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

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

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

Any readmitted student whose UCF GPA is less than 2.0 at the time of the last enrollment at the University will be readmitted on "Academic Probation." All applicants seeking readmission who have attempted course work at another regionally accredited institution since last attending the University will be required to be in "Good Standing" (minimum 2.0 GPA) at the last institution attended with no allowance for grade forgiveness and must be eligible to return to the last institution attended.

Readmission Following Suspension: Disqualification, with a Grade Point Deficiency of Less than 15 Grade Points
A student who has been academically disqualified by UCF (with a grade point deficiency less than 15 grade points) who has completed the two semester academic suspension period may petition for readmission by submitting the “Readmission Application Form” to the Registrar’s Office. For readmission purposes only, grade point deficiency is defined as the number of UCF credit hours earned with a “B” (3.0 GPA) grade that a student requires to raise his or her UCF grade point average to 2.0. A student’s grade point deficiency is calculated when the student applies for readmission. The petitioning student must satisfy the following requirements before a decision will be made:

1. Submit a written statement indicating the reason for the previous academic difficulties and a plan for ensuring success in future terms:
Academic Regulations and Procedures

a. The written statement should be limited in length to one typed page; it must be signed and dated, and include the student's UCF Personal Identification Number (PID).

A "Readmission Application Form" not accompanied by the required written statement will not be reviewed;

2. Contact the major's department/school/college to establish a plan to complete the program of study. The student must obtain the department/school/ college's favorable recommendation of this plan in writing; and,

3. Submit to the Registrar's Office official transcripts from all other schools attended during suspension (if applicable). The Registrar's Office will review the readmission application only when it receives all of the documents listed above. A student denied readmission by the Registrar's Office may appeal that decision to the Admissions and Standards Committee. See 'Right of Appeal' below for details. Disqualified students are limited to one readmission appeal during the disqualification period.

Readmission Prior to Completion of the Required Suspension

A student who has been academically disqualified by UCF who has not completed the academic suspension period is not eligible for readmission to the University. Students may appeal for an exception to this policy to the Admissions and Standards Committee. See 'Right of Appeal' below for details. Disqualified students are limited to one readmission appeal during the disqualification period and one appeal per 12-month period following the disqualification period.

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

Students who are disqualified (with a grade point deficiency of 15 grade points or more) or who have been excluded are not eligible for readmission to the University. The Registrar's Office will deny readmission to ineligible students. A student denied readmission by the Registrar's Office may appeal that decision to the Admissions and Standards Committee. See 'Right of Appeal' below for details. For readmission purposes only, grade point deficiency is defined as the number of UCF credit hours earned with a "B" (3.0 GPA) grade that a student requires to raise his or her UCF cumulative grade point average to 2.0. A student's grade point deficiency is calculated when the student applies for readmission.

Dropping or Withdrawing During Readmitted Term

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

Limitations on the Number of Readmission Appeals

Disqualified students are limited to one appeal for an exception to University policy to the Admissions and Standards Committee during the disqualification period and one appeal per 12-month period following the disqualification period.

Excluded students are limited to one appeal for an exception to University policy to the Admissions and Standards Committee per 12-month period.

Non-Academic Admission Clearances

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

Appeal

There is no appeal of the University's decision not to admit or readmit a student based on past misconduct. According to the Florida Administrative Code 6C-6.001(4): "Applicants denied admission shall be given notice of denial within a reasonable period of time following the decision. Upon the applicant's written request, the University shall provide the reasons for the rejection in writing."

Admissions and Standards Committee

The Admissions and Standards Committee is a reporting committee of the Faculty Senate. Its membership includes faculty and non-faculty representatives of the Faculty Senate, several academic colleges, the Division of Student Development and Enrollment Services, and Student Government Association. The Admissions and Standards Committee meets regularly to consider appeals from: 1) persons denied admission; 2) students denied readmission; 3) students requesting to continue in school, but who have failed to meet CLAST requirements; and 4) student appeals of University academic actions, policies or standards.

Appeal

There is no appeal of the University's decision not to admit or readmit a student based on past misconduct. According to the Florida Administrative Code 6C-6.001(4): "Applicants denied admission shall be given notice of denial within a reasonable period of time following the decision. Upon the applicant's written request, the University shall provide the reasons for the rejection in writing."

Right of Appeal

A student who is ineligible for readmission or has been denied readmission may appeal for an exception to University policy to the Admission and Standards Committee. The appealing student must satisfy the following requirements before the Registrar's Office will forward the appeal to the Committee:

1. Complete the "Application for Readmission as an Exception to University Policy Form," available at the Registrar's Office (MH 161);

2. Prepare a written statement specifying the extenuating circumstances that lead to their poor academic performance or academic dismissal.

a. The written statement should be limited in length to one typed page; it must be signed and dated, and include the student's UCF Personal Identification number (PID).

A "Application for Readmission as an Exception to University Policy Form" form not accompanied by the required written statement will not be forwarded to the Admissions and Standards Committee;

3. Provide documents which support and/or verify the extenuating circumstances (if applicable);

4. Supply official transcripts from all other schools attended during the suspension (if applicable);

5. Order one official copy of the UCF official transcript ($5 per copy). The Registrar's Office will forward this transcript to the Admissions and Standards Committee;

6. Submit ten stapled packets of appellant materials to the Registrar's Office (MH 161) by 12:00 p.m. (noon) Monday prior to the scheduled Admissions and Standards Committee meeting. The packet must contain the following documents, arranged in the following order:

   a. A completed "Application for Readmission as an Exception to University Policy Form";

   b. Written statement indicating the extenuating reasons for the previous academic difficulties and a plan for ensuring success in future terms;

   c. Any supporting documentation as directed by the college, school or other University personnel;

   d. Any additional supporting documentation (optional); and,
Academic Regulations and Procedures

Address and E-Mail Changes
The student's address is obtained from the "Application for Admission or Readmission." It is the students’ responsibility to make appropriate changes to the address as they occur. Address and e-mail changes can be made on myUCF (https://my.ucf.edu). Address and e-mail changes also can be made by writing the Registrar’s Office, P. O. Box 160114, Orlando, FL 32816-0114 or fax to 407-648-5022. Written requests must be signed and the student identification number provided.

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

A $5 per transcript charge is assessed for each transcript request. Payment for official transcripts is required at the time of request and may be satisfied by cash, check or money order (made payable to UCF), credit card, or UCF Card. Requests received by mail must be accompanied by check, money order, or credit card information (i.e., card type, card number, 3-digit Security Number, expiration date, and the name to which the card is registered.) Cash payments can be accepted only by the Cashier’s Office during that office’s regular business hours. The UCF Card payment option is available only at the main Orlando campus and must be made in person at the Registrar’s Office (MH 161). Mail written requests for transcripts to: Registrar’s Office, Attn: Transcripts, P. O. Box 160114, Orlando, FL 32816-0114. For fax request information and payment procedures, refer to http://registrar.ucf.edu or call 407-823-3100. Transcripts may be sent electronically to other Florida public institutions. Transcripts not claimed with 30 days of printing will be discarded and must be reordered. A $5.00 per reordered transcript fee must be submitted with the reorder request. Grades are available from myUCF at https://my.ucf.edu.

Third Attempt Course Repeat Surcharges
All students enrolled in undergraduate courses for the Fall 1997 semester and beyond are subject to an additional surcharge fee when they enroll in the same undergraduate college credit course three or more times. Completed courses, withdrawals, and courses with incomplete grades are counted as attempts, including courses repeated in order to raise the GPA or to achieve a specific grade. Courses that specify they may be repeated for credit are exempt. Students seeking exemptions for extenuating circumstances or financial hardship may submit a written petition with documentation to the Fee Appeals Committee, Student Accounts Office (MH 107). Exemptions to the third attempt surcharge will be considered through a Fee Appeal Process. Exceptions to the repeat course fee requirement shall be based only on extenuating circumstances, or financial hardship.

Extenuating Circumstances
Those circumstances determined by the University to be exceptional and beyond the control of the student. These may include, but not be limited to, the following:
1) Medical condition or serious illness preventing completion;
2) Death of an immediate family member;
3) Involuntary call to active duty; or
4) Other emergency circumstances or extraordinary conditions.
Special Limitation: students who withdraw or fail a class due to extenuating circumstances may be granted an exemption only once for each class.

Financial Hardship:
Should include, but not be limited to, the following:
1) Qualification for federal need-based financial aid; or
2) Other documented financial hardship may be

Academic Amnesty Program
Effective Fall 2004, the Academic Amnesty Program provides undergraduate students who are not eligible for readmission for academic reasons the opportunity to readmit to UCF after five or more years of separation. This program allows the student to nullify up to two consecutive terms worth of UCF coursework from his or her UCF grade point average. Students may not select specific courses within the two identified terms. If the student satisfactorily completes the Academic Amnesty Program, the University will remove from the student’s UCF GPA all UCF coursework for which the student enrolled during the selected consecutive terms. While grades nullified by satisfactory completion of the Academic Amnesty Program are not used in calculating the student’s UCF GPA, all course work will remain part of the student’s permanent record.

To apply for entrance into the Academic Amnesty Program, the student must:

1) Gain the written support for the Academic Amnesty Program from the student’s college or school and present to the Admissions and Standards Committee an academic plan of action approved by the college advising office. This plan will include the following:
   a. The specific semesters of the student’s academic history to be nullified by satisfactory completion of the Academic Amnesty Program;
   b. Approved courses in which the student will enroll during the two terms that comprise the Academic Amnesty Program; and
   c. Any additional requirements mandated by the college advising office (i.e., academic advising or mentoring, required tutoring or academic support services, etc.).
   d. Complete and submit an Academic Amnesty Agreement to the Admission and Standards Committee.

2) The UCF Admissions and Standards Committee will determine a student’s eligibility for entrance into the Academic Amnesty Program. The student will be required to appear before the Admissions and Standards Committee.

Obtain the Academic Amnesty form at registrar.ucf.edu.

Athletic Eligibility and Retention Committee
The Athletic Retention and Eligibility Committee (AERC) has oversight of the athletic participation of students who engage in intercollegiate athletics. It relies on information gathered from the Office of Athletic Compliance, the Office of Academic Services for Student-Athletes, coaches and the individual student. Student athletes who desire to continue their athletic participation while being on academic probation, must have the written support of their coach, complete a written document stating their methods and dedication to improve their level of academic achievement and the approval of the AERC. The committee shall review each applicant’s academic potential and current status and determine conditions for the individual's degree of continued participation in intercollegiate athletic activities.

Name Changes
To change the legal name maintained on the student’s official UCF record, the student must submit a completed “Change of Name” form and supporting documentation to the appropriate UCF office. Attach to the form a copy of a legal name change document (e.g., marriage certificate, divorce decree, etc.). Undergraduate students must submit the form to the Registrar’s Office (MH 161). Graduate students must submit the form to the Graduate Studies Office (MH 230). Current UCF employees and those students who have been UCF employees within twelve months of the date the name change is requested must submit the form to the Human Resources Office (2565 Research Parkway). The “Change of Name” form is available from the Registrar’s Office at MH 161 or online at http://registrar.ucf.edu.
Major, Minor, Undergraduate Certificate Policies

Policy for Undeclared Students

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

Majors

The University assigns the major that the student indicated on the “Application for Admission or Readmission.” It is the student’s responsibility to make appropriate major changes. Students who change majors between different colleges (including the Rosen College of Hospitality Management) must adopt the most current catalog. Students changing from a declared major to an “Undeclared” or “Undecided” major also must adopt the most current catalog. For each of these students, the University automatically will update the catalog year when processing the change in major. Students may retain their catalog when changing tracks/concentrations within the same major (e.g., English: Literature to English: Creative Writing), or when moving from a “Pending” category to the equivalent major (e.g., “Business Pending” to “Accounting”). If the new major is a different subject from the “pending” major (e.g., “Business Pending” to “History”), the student must adopt the most current catalog and the University automatically will update the catalog year when processing the change in major. If they have not interrupted residency, students entering UCF in an “Undeclared” or “Undecided” category may retain their catalog when initially selecting a major. The “Undergraduate Major Change Form” is available at the college and school advising offices of the Registrar’s Office website at http://registrar.ucf.edu. Forms may be submitted in person to the college/school advising offices or by mail or in person to the Registrar’s Office (MH 161). Requests must include the student’s identification number and signature.

Minors

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

Undergraduate Certificates

An undergraduate Certificate is a supplement to the bachelor’s degree program/major. Certificates are optional. Effective Summer 2005 students may receive an undergraduate Certificate by completing all requirements for an undergraduate Certificate program. Students must be admitted in a degree seeking program to be eligible to receive an undergraduate Certificate. Certificate programs may not be taken independently of a degree program All graduation requirements (i.e., the certificate and major/minor) must be from the same UCF Undergraduate Catalog for which a student is eligible. Certificates may be certified at any time during the student’s undergraduate career. Some certificates may restrict awarding the certificate to time of degree completion. The undergraduate Certificate is awarded upon completion of the certificate requirements as determined by college/school of each specific certificate. The Undergraduate Certification form is available at the college and school advising offices.

Student Records

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

Family Educational Rights and Privacy Act (FERPA)

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

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

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

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

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

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

Directory Information

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

- name
- current mailing address
- telephone number
- e-mail address
- date of birth
- major field of study
- dates of attendance
Higher Education Act
Lists, descriptions, and sources of information required for disclosure under the Higher Education Act may be obtained from the Registrar’s Office (MH 161) or from registrar.ucf.edu/hea/

Accelerated Education Opportunities
The University of Central Florida provides a number of options by which students may shorten the time required to complete the baccalaureate degree. These options permit the University to recognize high levels of academic achievement and acquisition of knowledge prior to or during attendance at the University. Courses that may be used include the Advanced Placement Program (AP), the College Level Examination Program (CLEP), University Course Credit by Examination, DANTES, and the International Baccalaureate. A maximum of 45 semester hours in any combination of extension, AP, IB, correspondence, CLEP, Armed Forces Service School Credits, and University Credit by Examination will be accepted by the University for application toward an undergraduate degree. Credit earned by acceleration mechanisms also applies toward satisfaction of the Summer Attendance Requirement. In addition, there are accelerated Undergraduate - Graduate Programs linking the bachelors and Master’s degree listed in the catalog.

At the time this catalog went to press, the Florida Department of Education was reviewing test credit policies. For updated information please visit http://www.registrar.ucf.edu/testcredit.html.

Advanced Placement Program (AP)
(see table below)

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

Advanced Placement Language (all modern languages)
A score of 3 earns a minimum of one semester (min. 3 credits) credit in the appropriate subject area. A score of 4 or 5 earns a minimum of two semesters (min. 6 credits) of introductory literature.

Advanced Placement Latin
The AP Latin course focuses on one or two authors. Students either study Vergil or follow a “Latin Literature” syllabus that includes Catullus and either Horace, Ovid, or Cicero. A minimum of one semester (min. 3 credits) should be awarded for a score of 3 or higher.

AP Latin: Vergil
LAN 3660
AP Latin: Latin Literature
LAN 3700 (number unique to exam)

International Baccalaureate Program
(see table on following page)

Students who have participated in the International Baccalaureate program in high school may receive a maximum of 30 hours of credit for scores of four or higher in the subsidiary and higher level program areas. The table below labeled “International Baccalaureate” provides information related to the Internation Baccalaureate program credit.

International Baccalaureate (all modern languages)
International Baccalaureate offers examinations in many languages and literatures at different levels: B, A2, and A1. Most students in

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### ADVANCED PLACEMENT EXAMS

<table>
<thead>
<tr>
<th>Exam</th>
<th>Score of 3</th>
<th>GEP Usage</th>
<th>Score of 4</th>
<th>GEP Usage</th>
<th>Score of 5</th>
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<td>MAC 2311 and 2312</td>
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<td>Same as 3</td>
<td>SCI Found 1</td>
<td>Same as 3</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td><strong>Statistics</strong></td>
<td>STA 2031</td>
<td>STA 2031</td>
<td>Same as 3</td>
<td>STA 2031</td>
<td>Same as 3</td>
<td>STA 2031</td>
</tr>
<tr>
<td><strong>Studio Art: Drawing Portfolio</strong></td>
<td>No direct equivalent</td>
<td>No direct equivalent</td>
<td>Same as 3</td>
<td>Same as 3</td>
<td>Same as 3</td>
<td></td>
</tr>
<tr>
<td><strong>Studio Art: 2-D Design Portfolio</strong></td>
<td>No direct equivalent</td>
<td>No direct equivalent</td>
<td>Same as 3</td>
<td>Same as 3</td>
<td>Same as 3</td>
<td></td>
</tr>
<tr>
<td><strong>United States History</strong></td>
<td>AMH 1000</td>
<td>AMH 2010 and 2020</td>
<td>Same as 3</td>
<td>SCI Found 2</td>
<td>Same as 3</td>
<td>SCI Found 2</td>
</tr>
<tr>
<td><strong>World History</strong></td>
<td>WOH 2022</td>
<td>WOH 2022</td>
<td>Same as 3</td>
<td>CUL &amp; HIS Found 1</td>
<td>Same as 3</td>
<td>CUL &amp; HIS Found 1</td>
</tr>
</tbody>
</table>
Florida take English as their A1 level language (literature for native or near-native speakers) and one or more foreign Language B exams. Within each category, there are “standard” and “higher” level examinations. Institutions may wish to award additional credit for higher-level exams.

**Language B (most common)**

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

**INTERNATIONAL BACCALAUREATE**

<table>
<thead>
<tr>
<th>Exam</th>
<th>4 (Diploma holders only)</th>
<th>GEP Usage</th>
<th>5 (Higher-Level only for non-diploma holders; either Standard or Higher Level for diploma holders)</th>
<th>GEP Usage</th>
<th>6-7 (Higher-Level only GEP Usage for non-diploma holders; either Standard or Higher Level for diploma holders)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>BSC 1005/1005L</td>
<td>SCI Found 2</td>
<td>BSC 1005/1005L and BSC 2010C</td>
<td>SCI Found 2</td>
<td>Same as 5</td>
</tr>
<tr>
<td>Chemistry</td>
<td>CHM 1020 &amp; 1020L</td>
<td>SCI Found 1</td>
<td>CHM 1020/CHM 1020L and CHM 2045</td>
<td>SCI Found 1</td>
<td>Same as 5</td>
</tr>
<tr>
<td>Computer Science</td>
<td>CGS 1078</td>
<td>MAT Found 2</td>
<td>CEG 1079 (6 Credits)</td>
<td>MAT Found 2</td>
<td>Same as 5</td>
</tr>
<tr>
<td>Design Engineering</td>
<td>ETI 1410</td>
<td>SCI Found 2</td>
<td>ETI 1410 (6 Credits)</td>
<td>SCI Found 2</td>
<td>Same as 5</td>
</tr>
<tr>
<td>Economics</td>
<td>ECO 1000</td>
<td>SCI Found 2</td>
<td>ECO 1003 and ECO 2013</td>
<td>SCI Found 2</td>
<td>Same as 5</td>
</tr>
<tr>
<td>English I</td>
<td>ENC 1101</td>
<td>SCI Found 1</td>
<td>ENC 1101 and ENC 1102</td>
<td>SCI Found 1</td>
<td>Same as 5</td>
</tr>
<tr>
<td>Environmental Systems</td>
<td>ISG 1050</td>
<td>SCI Found 2</td>
<td>ISG 1050 (6 credits)</td>
<td>SCI Found 1</td>
<td>Same as 5</td>
</tr>
<tr>
<td>Further Mathematics</td>
<td>MIF 1202</td>
<td>SCI Found 2</td>
<td>MIF 1202 and MIF 1209</td>
<td>SCI Found 2</td>
<td>Same as 5</td>
</tr>
<tr>
<td>(Advanced Mathematics)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geography</td>
<td>WSC 1030</td>
<td>CUL &amp; HIS Found 1</td>
<td>GEO 1200 and GEO 1400</td>
<td>CUL &amp; HIS Found 1</td>
<td>Same as 5</td>
</tr>
<tr>
<td>History</td>
<td>WSC 1030</td>
<td>CUL &amp; HIS Found 1</td>
<td>WOH 1030 and WOH 199</td>
<td>CUL &amp; HIS Found 1</td>
<td>Same as 5</td>
</tr>
<tr>
<td>Math Methods</td>
<td>MAC 1105</td>
<td>MAT Found 1</td>
<td>MAC 1105 and MAC 1140</td>
<td>MAT Found 1</td>
<td>Same as 5</td>
</tr>
<tr>
<td>Math Studies</td>
<td>MAT 1033</td>
<td>SCI Found 2</td>
<td>MAT 1033 and MGF 1100</td>
<td>SCI Found 2</td>
<td>Same as 5</td>
</tr>
<tr>
<td>Mathematics</td>
<td>MAC 1147</td>
<td>MAT Found 1</td>
<td>MAC 1147 and MAC 2233</td>
<td>MAT Found 1</td>
<td>Same as 5</td>
</tr>
<tr>
<td>Music</td>
<td>MUL 1050</td>
<td>SCI Found 2</td>
<td>MUL 1050 and HUM 199</td>
<td>SCI Found 2</td>
<td>Same as 5</td>
</tr>
<tr>
<td>Philosophy</td>
<td>PHY 1020C</td>
<td>SCI Found 1</td>
<td>PHY 1020C and PHY 1000</td>
<td>SCI Found 1</td>
<td>Same as 5</td>
</tr>
<tr>
<td>Physics</td>
<td>PSY 1020C</td>
<td>SCI Found 1</td>
<td>PSY 1020C and PHY 1000</td>
<td>SCI Found 1</td>
<td>Same as 5</td>
</tr>
<tr>
<td>Social Anthropology*</td>
<td>ANT 2410</td>
<td>SCI Found 2</td>
<td>ANT 2410 and additional course determined by institution.</td>
<td>SCI Found 2</td>
<td>Same as 5</td>
</tr>
<tr>
<td>Visual Arts</td>
<td>ARH 1999</td>
<td>SCI Found 2</td>
<td>ARH 1999 and HUM 199</td>
<td>SCI Found 2</td>
<td>Same as 5</td>
</tr>
</tbody>
</table>

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

**COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)**

<table>
<thead>
<tr>
<th>Course</th>
<th>&quot;C&quot;-level pass.</th>
<th>GEP Usage</th>
<th>&quot;B&quot;-level pass</th>
<th>GEP Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting, Principles of</td>
<td>ACG 1001</td>
<td>Same as &quot;C&quot;</td>
<td>MAT Found 1</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Algebra, College</td>
<td>MAC 1105</td>
<td>MAT Found 1</td>
<td>Same as &quot;C&quot;</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Algebra-Trigonometry, College</td>
<td>MAC 1147</td>
<td>MAT Found 1</td>
<td>Same as &quot;C&quot;</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>American Government</td>
<td>POS 2041</td>
<td>Same as &quot;C&quot;</td>
<td>SOC Found 1</td>
<td>SOC Found 1</td>
</tr>
<tr>
<td>American Literature</td>
<td>AML 1000</td>
<td>AML 2010 and 2020</td>
<td>Same as &quot;C&quot;</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
<tr>
<td>Biology, General</td>
<td>BSC 1005</td>
<td>SCI Found 2</td>
<td>Same as &quot;C&quot;</td>
<td>SCI Found 2</td>
</tr>
<tr>
<td>Business Law, Introduction</td>
<td>BUL 1241</td>
<td>Same as &quot;C&quot;</td>
<td>MAT Found 1</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Calculus with Elementary Functions</td>
<td>MAC 2233</td>
<td>MAT Found 1</td>
<td>Same as &quot;C&quot;</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Chemistry, General</td>
<td>CHM 1020</td>
<td>SCI Found 1</td>
<td>Same as &quot;C&quot;</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Educational Psychology, Introduction to the</td>
<td>EDP 1002</td>
<td>Same as &quot;C&quot;</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>English Composition with Essay</td>
<td>ENC 1001</td>
<td>SCI Found 1</td>
<td>COM Found 1</td>
<td>COM Found 1</td>
</tr>
<tr>
<td>English Literature</td>
<td>ENL 1000</td>
<td>COM Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>History of the United States I: Early Colonizations</td>
<td>POS 2041</td>
<td>AMH 2010 and 2022</td>
<td>CUL &amp; HIS Found 2</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
<tr>
<td>History of the United States II: 1895 to Present</td>
<td>POS 2041</td>
<td>AMH 2010 and 2022</td>
<td>CUL &amp; HIS Found 2</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
<tr>
<td>Human Growth and Development</td>
<td>DEP 2004</td>
<td>Same as &quot;C&quot;</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Information Systems and Computer Applications</td>
<td>CGS 1077</td>
<td>MAT Found 2</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Macroeconomics, Principles of Management,</td>
<td>MAN 2021</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Marketing, Principles of</td>
<td>MAR 2011</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Mathematics, College</td>
<td>MGF 1107</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Microeconomics, Principles of Psychology,</td>
<td>ECO 2013</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Sociology, Introductory</td>
<td>PSY 1999</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Trigonometry</td>
<td>MAC 1114</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Western Civilization I: Ancient Near East to 1648</td>
<td>SYG 2000</td>
<td>SOC Found 2</td>
<td>SCI Found 2</td>
<td>SCI Found 2</td>
</tr>
<tr>
<td>Western Civilization II: 1648 to Present</td>
<td>MAC 1114</td>
<td>MAT Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Western Civilization I: Early 1649 to Present</td>
<td>SYG 2000</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Western Civilization II: 1648 to Present</td>
<td>MAC 1114</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>History of the United States I: Early Colonizations</td>
<td>POS 2041</td>
<td>AMH 2010 and 2022</td>
<td>CUL &amp; HIS Found 2</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
<tr>
<td>History of the United States II: 1895 to Present</td>
<td>POS 2041</td>
<td>AMH 2010 and 2022</td>
<td>CUL &amp; HIS Found 2</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
<tr>
<td>Human Growth and Development</td>
<td>DEP 2004</td>
<td>Same as &quot;C&quot;</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Information Systems and Computer Applications</td>
<td>CGS 1077</td>
<td>SCI Found 2</td>
<td>SCI Found 1</td>
<td>SCI Found 2</td>
</tr>
<tr>
<td>Macroeconomics, Principles of Management,</td>
<td>MAC 2021</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Marketing, Principles of</td>
<td>MAR 2011</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Mathematics, College</td>
<td>MGF 1107</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Microeconomics, Principles of Psychology,</td>
<td>ECO 2013</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Sociology, Introductory</td>
<td>PSY 1999</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Trigonometry</td>
<td>MAC 1114</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Western Civilization I: Ancient Near East to 1648</td>
<td>SYG 2000</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Western Civilization II: 1648 to Present</td>
<td>MAC 1114</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
</tbody>
</table>

* This use for General Education applies only to I.B. credit.
Carnegie Classification of Institutions of Higher Education

Academic Regulations and Procedures

IB Latin
LNW 3701. This is a unique number assigned to this exam. The IB Latin course includes a reading component and a selection of two out of four authors on a list that changes periodically. Minimum 3 credits for score of 4 (Diploma holders only), 6 credits for score of 5-7 (all exams for diploma holders, higher level exams only for others).

College Level Examination Program (CLEP)
(see table on previous page)
Credit is awarded for scaled scores of 50 or higher on computer-based CLEP exams taken after July 1, 2001. A percentile score of 50 or higher is required on CLEP examinations taken prior to July 1, 2001. CLEP credit may be earned by CLEP subject examinations. Successful completion of CLEP examinations means performance at or above the minimum qualifying score. CLEP credit cannot be used to reduce a grade point deficiency. For example, CLEP cannot be substituted for a grade awarded for a previously completed course. CLEP may not be used to fulfill the senior institution requirements.

Awarding of CLEP credit is subject to the conditions listed below.

- Credit may be awarded in the CLEP subject examination area, provided the student: a) is not within 60 semester hours of graduation; b) has not previously received comparable college course credit in the CLEP examination area; c) does not receive comparable college credit in the CLEP examination area in the same term the examination is taken or in a subsequent term; d) has not previously completed, failed, or received credit by UCF (transfer or otherwise) in a more advanced course in the examination area; and e) does not complete or receive credit by UCF (transfer or otherwise) in a more advanced course during the semester in which the CLEP examination is taken.

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

![CAMBRIDGE AICE EXAMS](http://www.cie.org.uk/q_and_s/gce_a/index.html)

Cambridge AICE Exams
(see table below)
The Advanced International Certificate of Education (AICE) program is an international, advanced secondary curriculum and assessment program equivalent to the British system of "A-Levels." Information about the program, including course syllabi, can be found online at [http://www.cie.org.uk/q_and_s/gce_a/index.html](http://www.cie.org.uk/q_and_s/gce_a/index.html).

### CAMBRIDGE AICE EXAMS

<table>
<thead>
<tr>
<th>Exams</th>
<th>Passing score of &quot;E&quot; or &quot;D&quot;</th>
<th>GEP Usage</th>
<th>Passing score of &quot;C&quot;, &quot;B&quot;, or &quot;A&quot;</th>
<th>GEP Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art and Design (AS-Level)</td>
<td>Credit at discretion of faculty; submission of portfolio recommended</td>
<td>same</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art and Design (A-Level)</td>
<td>Credit at discretion of faculty; submission of portfolio recommended</td>
<td>same</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology (AS-Level)</td>
<td>none</td>
<td>BSC 1005/1005L</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Biology (A-Level)</td>
<td>none</td>
<td>BSC 2010C</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Chemistry (AS-Level)</td>
<td>none</td>
<td>CHM 1020/1020L</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Chemistry (A-Level)</td>
<td>none</td>
<td>CHM 2045C</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Computing (AS-Level)</td>
<td>CGS 1073</td>
<td>MAT Found 2</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Computing (A-Level)</td>
<td>CGS 1073 and CGS 1074</td>
<td>MAT Found 2</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Economics (AS-Level)</td>
<td>ECO 1000</td>
<td>same</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Economics (A-Level)</td>
<td>ECO 2013 and ECO 2023</td>
<td>SOC Found 1</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>English (AS-Level)</td>
<td>ENC 1101 or ENC 1102*</td>
<td>COM Found 1</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>English (A-Level)</td>
<td>ENC 1101 or ENC 1102#</td>
<td>COM Found 1</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Environmental Science (AS-Level)</td>
<td>EVR 1001C</td>
<td>SCI Found 2</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Geography (AS-Level)</td>
<td>GEA 1000</td>
<td>SCI Found 2</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Geography (A-Level)</td>
<td>GEO 1200 and GEO 1400</td>
<td>SCI Found 2</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>History (AS- or A-Level)</td>
<td>Three credits for each successfully passed paper, subject to institutional review</td>
<td>same</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign Language (Exams, AS or A-Level)</td>
<td>At least one semester of language credit up to elementary II level (usually 1121)</td>
<td>same</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign Language (Literature Exams, AS or A-Level)</td>
<td>One semester of literature</td>
<td>same</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics (AS-Level)</td>
<td>none</td>
<td>MAC 1147</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Mathematics (A-Level)</td>
<td>none</td>
<td>MAC 2311</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Physics (AS-Level)</td>
<td>none</td>
<td>PHY 1020C</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Physics (A-Level)</td>
<td>PHY 2053C</td>
<td>SCI Found 1</td>
<td>same</td>
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</tr>
<tr>
<td>Psychology (AS-Level)</td>
<td>none</td>
<td>PHY 2053C/2054C</td>
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<tr>
<td>Psychology (A-Level)</td>
<td>PSY 2012</td>
<td>SCI Found 1</td>
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<tr>
<td>Sociology (AS-Level)</td>
<td>none</td>
<td>SCI Found 1</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Sociology (A-Level)</td>
<td>SYG 2000</td>
<td>SCI Found 2</td>
<td>same</td>
<td></td>
</tr>
</tbody>
</table>

* If the student has previous credit for ENC 1101, credit will be awarded for ENC 1102.
# If the student has previous credit for ENC 1101 and ENC 1102, credit will be awarded for LIT 1006.
Academic Regulations and Procedures

DANTES Examination Credit
(see table below)
The University will award credit to students presenting qualifying scores in DANTES examinations. The table labeled "DANTES Subject Standardized Tests (DSST)" provides information related to the Dantes Examination credit. For additional information: www.getcollegecredit.com.

Excelsior College Examinations
(see table below)
The table labeled "Excelsior College Examinations" provides information related to the Excelsior examination areas and subtest areas for which credit is awarded. More detailed information about Excelsior College Examinations, including detailed test descriptions, can be found online at http://www.excelsior.edu.

### DANTES SUBJECT STANDARDIZED TESTS (DSST)

<table>
<thead>
<tr>
<th>Exam Credit</th>
<th>Course Number</th>
<th>GEP Usage</th>
<th>Passing Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Math</td>
<td>QMB 1001</td>
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<td>Foundations of Education</td>
<td>EDF 1000</td>
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<td>ACG 1001</td>
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### EXCELSIOR COLLEGE EXAMINATIONS TABLE

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<thead>
<tr>
<th>Exam Title</th>
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<td>English Composition</td>
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<td>ENC 1101/1102 for B</td>
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<td>Ethics: Theory and Practice</td>
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<td>Foundations of Gerontology</td>
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<td>Psychology of Adulthood and Aging</td>
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International Studies and Programs

The Office of International Studies (OIS) serves as a bridge that connects UCF students and faculty to diverse world communities. As a University level office, the OIS focuses on creating a trans-national understanding of the social, economic, cultural, environmental, and political realities of the 21st Century. The OIS, the Office of the Special Assistant to the President for Global Perspectives, the International Services Center and the Center for Multilingual, Multicultural Studies work together to provide a concerted effort to implement the university’s broader strategic plan for internationalization.

The OIS mission is to promote, support, facilitate, advocate, and implement activities that lead to the internationalization of education and research at UCF. This is accomplished through: faculty development activities; internationalization of courses and programs; enhancement of international exchanges; promotion of international partnerships; and the identification and acquisition of external funding.

Central to the global mission at UCF is an ongoing program of international grants and development projects. The OIS secures, through external funding agencies, the resources necessary for faculty and curriculum development, joint research projects, and partnership programs. Recent grants include U.S. Department of Education Fulbright-Hays Group Projects Abroad grants to Mexico, the Caribbean, Peru, India, and Bolivia.

Several enrichment opportunities for faculty have OIS involvement, including the International Track of the UCF Faculty Development Summer Conference, other faculty workshops, and research opportunities.

The OIS assists in developing and processing agreements with institutions outside the United States. These agreements vary from protocols of cooperation to specific agreements covering participation in theses and dissertation committees, student and faculty exchanges, and study abroad programs. The OIS provides templates, facilitates processing, and maintains agreement files.

Through the OIS, UCF develops, promotes and supports programs of study throughout Africa, Asia, Europe, Latin America and the Caribbean (see below).

Study Abroad Programs

By its very nature, study abroad provides an exciting setting for learning – one in which student interaction is central to the learning process. Study abroad participants also learn about new environments, customs and, in many cases, new languages. They deal with the uncertainties of international travel and must adapt to the dynamics of the group. Maturity, self confidence, and awareness of other cultures are only some of the benefits of study abroad. Students are invited to expand their classroom, their experience, and their future through study abroad.

UCF study abroad opportunities are a cooperative venture of academic departments and the Office of International Studies (OIS), and are designed to provide an exceptional learning experience, while matching the needs and situations of UCF students. The two main types of programs administered by UCF are Short Term Programs and Student Exchanges.

Short Term Programs are intended to provide the maximum amount of exposure to a subject in the shortest period of time. They must meet all the criteria for UCF courses and can be delivered as complete modules, or as a complement to a course delivered on campus or online. Examples of short term programs that UCF has offered in the past include the Department of Foreign Languages’ intensive programs in France, Japan, Germany, Spain and Italy; Social Work Department programs in South Africa and Russia; Criminal Justice in Barbados and Russia, Nursing in Sweden; Education in the Netherlands, Hospitality in France, and Art in Scotland.

Student Exchanges provide the opportunity to become a student at a university abroad for one semester or even a year. The longer terms allow for a more extensive experience abroad. Student exchanges require greater personal commitment, maturity and organization. Therefore, they are limited to UCF students who have attained at least a junior status and who have a minimum 3.0 GPA. Some of the exchanges that have been offered at UCF are Qingdao University in China; Université de Angers and Paul Sabatier in France; Meikai University in Japan; University of Lima in Peru; the universities of Lund, Jonkoping, Mallardalen, and Dalarna in Sweden; and University College Northampton in the United Kingdom.

UCF students may also take advantage of the options provided by other member universities in the State University System (SUS) of Florida. There are numerous programs available through the system. UCF students apply to these programs directly and must become transient students at the host institution.

There are many additional study abroad options available to UCF students. It is important that students investigate their choices, the requirements and the implications that each choice has in terms of cost, credit transferability and progress toward graduation. OIS staff members can provide program advice and general information about options. For up-to-date information, please visit www.international.ucf.edu, or contact the office at 407-882-2300.

Experiential Learning, Undergraduate Studies

Director: Dr. Sheri Dressler, Howard Phillips Hall, Suite 208
(407) 823-2667, www.csel.ucf.edu

Experiential Learning is an instructional department reporting to Undergraduate Studies. It functions in collaboration with Career Services in a joint venture called Career Services and Experiential Learning (CSEL). Its mission is: 1) to assure that quality experiential learning opportunities are available to all UCF students before graduation, and 2) to create meaningful and productive educational part-
nerships with academic departments and community partners locally, nationally, and internationally.

The Experiential Learning department directly delivers cooperative education (co-op) and internship courses and facilitates and supports department faculty in the development and provision of internship and service-learning courses. It also administers the Florida Work Experience Program (FWEP) through which additional paid, major-related experiences are created for students with documented unmet financial need. All of these options provide major-related, real-world experience off-campus to assist students to apply classroom theory and gain the personal and professional competencies they need to be well prepared upon graduation.

- Co-op opportunities are available to students on all campuses in all Colleges. They are always major-related, paid, and multiple semesters with progressively responsible duties. They are either part-time around class schedules or full-time alternating semesters, structured for learning with reflection and evaluation, designated on transcripts, and available for credit when it will count in a student’s academic program.

- Internships provide similar benefits to co-op experiences. They are usually one-semester, paid or unpaid, for credit, and occur toward the end of a student’s program of study. They are available through the Experiential Learning department or through departments in Colleges. Contact information for department internship coordinators is on the Experiential Learning website.

- Service-Learning is a means of incorporating experiential learning into academic courses so that students learn course content through a service experience. Through this process, students gain an appreciation for civic engagement while using course content in a real-world environment. Courses using this approach are designated with SL in course listings so that students can select to participate in this type of learning experience.

Current co-op and internship opportunities through Experiential Learning are listed on our website under Experiential Learning. To apply to these opportunities students must complete an application online any time during the year, preferably one semester before they want to participate to allow time to obtain an appropriate learning experience.

Division of Continuing Education

Assistant Vice President/Director: J. Patrick Wagner; University Tech Center, 12565 Research Parkway, Suite 390, Orlando, FL 32826; 407-882-0260; Fax: 407-882-0244; Website: www.ce.ucf.edu

The Division of Continuing Education (DCE) serves as the unit within Academic Affairs for the centralized administration of continuing education at UCF. In partnership with the academic, business, and professional communities, DCE provides local, state, national and international clients with high quality, affordable, credit/noncredit educational programs and services. DCE clients include degree students, area professionals, K-12 students, domestic and international corporations, and local/state/federal government.

Center for Multilingual Multicultural Studies

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

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

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

Off-Campus College Credit Programs

Director: Stephen Miller; Division of Continuing Education, Bldg #81, P.O. Box 160950, Orlando, FL 32816-0950; 407-882-0260; Fax: 407-882-0244

Off-Campus College Credit Programs assists in the administration and coordination of approved partnerships and other specially formatted credit courses and degree programs for the academic colleges. Registration may be conducted at various business, educational, or governmental locations served or via the web for student convenience. Course registration for non-admitted students does not constitute regular admission to the University.

Institutes and Centers for Research

Center for Applied Human Factors in Aviation (CAHFA)

Director and Chief Scientist: Jefferson M. Koonce; 407-823-1011; Fax: 407-823-5862

The Center for Applied Human Factors in Aviation (CAHFA) has as its mission the enhancement of safety in the nation’s airspace system through applied human factors research, systems design, and training strategies. Chartered in 1990, CAHFA is a research consortium established between UCF and Charter partner Embry-Riddle Aeronautical University, Daytona Beach, Florida. CAHFA’s professional staff maintains offices on both campuses. The complimentary strengths of the two universities are combined to create a research resource that is without peer for solving aeronautical human factors problems. CAHFA research initiatives are targeted to significantly reduce human factors related accidents and incidents by determining the efficacy of and by developing strategies for achieving improvements in human performance.

Center for Economic Education

Director: Robert L. Pennington; BA2 303E; 407-823-2640

The Center for Economic Education strives to increase public knowledge of economic principles and their applications in daily life. Researchers at the Center develop, collect, and distribute economic educational materials. They also consult with and provide instruction to area schools (K-12), community colleges, and community organizations. Instruction focuses on the principles of economics and their use in making rational economic decisions. Affiliated with the National Council on Economic Education, the Center also conducts research in economic education.

Dick Pope, Sr. Institute for Tourism Studies

Director: Abraham Pizam; 407-823-6202

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

The Institute’s research includes the collection, development, and dissemination of information relevant to the tourism and hospitality industries. This new program, 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 community at large.

Executive Development Center

Director: Dr. Jai Ganesh; 407-823-2446

The University of Central Florida College of Business Administration is proud to serve as a partner in executive education to the local, state, national, and international business communities. The Executive Development Center was established to provide leading executive education programs to both individuals and organizations. The Center helps professionals from all industries become more dynamic leaders, more effective managers, and more valuable team members. Corporations benefit from participating in executive education programs by developing more productive and resourceful workforces that can meet the challenges of today’s changing marketplace.
and tomorrow's opportunities.

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

- Executive MBA Program;
- Professional MBA Program;
- Customized corporate programs;
- Conference services;
- Public enrollment programs;
- International seminars and exchange programs;

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

**Florida Canada Linkage Institute**

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

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

**Florida Eastern Europe Linkage Institute**

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

The Florida Eastern European Linkage Institute is statewide and is designed to create and foster educational, commercial, cultural and social exchanges between the countries in central and eastern Europe and the State of Florida. The Institute, funded and administered through the Office of Academic Affairs and located in the College of Health and Public Affairs on the main campus, promotes the development of linkage through expanded public/private dialogue on cooperative research and technical assistance, cultural exchanges, the enhancement of language training, and student/faculty exchange programs. The institute administers the Out of State Tuition Fee Exemptions Program that is available for students from central and east European countries to study in Florida State universities and community colleges for the same tuition fees as Florida residents. The awards are limited to 25 FTE and are competitive.

**The John Scott Dailey Florida Institute of Government at the University of Central Florida**

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

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

**Florida Solar Energy Center (FSEC)**

Director: James Fenton; 1679 Clearlake Road, Cocoa FL 32922-5703; 321-638-1007; Fax: 321-638-1010.

The Florida Solar Energy Center is the largest and most active state-supported alternative energy research institute in the United States. Its facilities are located on the Cocoa campus of UCF at Brevard Community College. FSEC has gained national and international respect for its programs on photovoltaics, hydrogen from renewables, pollutant detoxification, photocatalytic processes, energy-efficient buildings, advanced cooling technologies, and solar thermal systems. It operates the only certified solar equipment testing program in the country. The yearly value of FSEC’s external contracts exceeds its state support by a factor of two. The Center conducts seminars and workshops for professionals statewide, and its technical library boasts one of the nation’s most extensive holdings on solar and alternative energy. FSEC’s international Renewable Energy Training and Education Center is providing educational programs for government and industry leaders around the world.

**Florida Space Institute (FSI)**

Director: Dr. Ron Phillips, Mail Stop: FSI, Kennedy Space Center, FL 32899; 321-452-9834; Fax: 321-452-4842; E-mail: fsiccas@mail.ucf.edu; Website: http://fsi.ucf.edu

The mission of the Florida Space Institute is to support and develop Florida's space industry through applied and basic university research and university education in space-related fields using practice-based teaching. FSI conducts research, develops and transfers technology, teaches courses, and provides services to the scientific community. In cooperation with the Florida Space Authority, NASA / Kennedy Space Center, the Air Force, and statewide industry infrastructure, FSI works to facilitate engineering and science interactions within the state.

FSI, a state of Florida Type I Institute within UCF, has 10 member schools and provides space related education and research to undergraduate and graduate students at the Space Center. Research involves students in real-world space issues within the existing space industry environment of the Space Center. This environment permits students and faculty to interact with Space Center engineers and researchers and to use the extensive facilities of the Space Center.

FSI labs and classrooms are located at the Space Center. Additionally, we operate a magnetic launch assist facility and launch sub-orbital sounding rockets from our dedicated educational launch pad at the Cape Canaveral Air Force Station. This combination of facilities at the Space Center provides students with an unequalled opportunity to obtain an education and experience, through practice-based teaching, in the areas of space science and engineering.

**Institute for Simulation and Training (IST)**

Director: Randall Shumaker; 3280 Progress Drive, Orlando, FL 32826-0544; 407-882-1300; Fax: 407-658-5059; E-mail: shumaker@ist.ucf.edu; Website: http://www.ist.ucf.edu

The Institute for Simulation and Training (IST) was established to conduct research and develop technology that advances the state of the art in affordable and effective simulation capabilities and training systems. Driven by a proven record of research achievement, IST has developed unique qualifications and is positioned to provide the enabling technologies and technical talent necessary for future simulation development. In April 1985 a State of Florida resolution recognized the institute as part of the Center of Excellence for Simulation and Training.

IST is located in the Central Florida Research Park, adjacent the UCF campus. The park also is home to the Army Program Executive Office for Simulation, Training and Instrumentation (PEO STRI), Naval Air Training Systems Division (NAVAIR TSD), and Air Force Agency for Modeling and Simulation (AFAMS). The institute is one of an estimated 150 public and private entities specializing in simulation and training and located along the high tech corridor traversing the state from Tampa to Daytona Beach, the largest concentration of this expertise in the world.

IST’s research staff of scientists, engineers, and students conducts basic and applied research for a broad range of training devices and programs. Departments focus on applied research and technology, human systems integration, and information systems technologies. Research areas include:

- Multi-resolution simulation
- Virtual environments
- Computer generated forces
- Mathematical foundations
- Application development
- Information technology
- Human factors/Team training
- Training and education
- Media convergence
- Embedded simulation
- Parallel computing

Laboratories, work space, and administrative offices occupy nearly 38,000 square feet of floor space in IST’s research park building. Another 26,000 square feet of office and laboratory space is shared with the US Army. Simulation-based emergency management training is conducted at the institute’s training building near Orange and
Special Academic Programs and Research Institutes

To support educational and research programs, University of Central Florida has established a number of programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean science, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one month to four years. Many of these programs are specially designed to increase the numbers of underrepresented minority students pursuing degrees in science- and engineering related disciplines, and details on locations benefits can be found at [http://www.orau.gov/orise/educ.htm](http://www.orau.gov/orise/educ.htm).

ORAU’s Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU’s members, private industry, and major federal facilities. Activities include faculty development programs, such as the Ralph E. Powe Junior Faculty Enhancement Awards, the Visiting Industrial Scholars Program, consortium research funding initiatives, faculty research and support programs as well as services to chief research officers.

Small Business Development Center (SBDC)

**Director:** Aloyse T. Polfer; National Entrepreneur Center, 315 E. Robinson St., Suite 100, Orlando FL 32801; 407-420-4850; al.polfer@bus.ucf.edu; www.bus.ucf.edu/sbdc.

The Small Business Development Center (SBDC) is part of a statewide organization designed to promote economic development and responding to the needs of the small business community. The SBDC, as part of the College of Business Administration at the University of Central Florida, is responsible for a geographic area including Orange, Osceola, Lake, Volusia, Flagler, and Sumter counties. Regional centers located at Daytona Beach Community College, Brevard Community College, and Seminole Community College assist small business in those areas. Assistance is provided through workshops and individual counseling in the following areas:

- Personnel
- Bookkeeping
- Business Tax
- Franchising
- Marketing
- Sources of Financing
- Product Innovation
- Business Plan Development

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

Small Business Institute

**Director:** Lloyd W. Fernald, Jr.; 407-823-5725

Business schools have for many 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.

IST actively assists UCF in the development of simulation-related curricula. First in the nation with a master’s degree in simulation systems, the University in collaboration with IST now offers a truly multidisciplinary PhD in modeling and simulation. Both master’s and doctoral programs accept applications from graduate students in computer science, digital media, psychology, engineering, mathematics, and related disciplines. The institute annually employs more than 80 graduate and undergraduate students in a variety of research and support positions. For many outstanding graduates, IST is a launch pad to a career in the simulation industry.

The institute includes in its efforts the development of research projects with potential commercial applications and adaptation of military technology to civilian markets. IST communicates the results of its research through seminars, conferences, publications, and workshops. In cooperation with UCF and the University of South Florida, and with considerable participation from area corporations, IST researchers are helping to promote economic growth in the modeling and simulation industry along central Florida’s high tech corridor.

Institute of Statistics and Data Mining

**Director:** Dr. Nizam Uddin; 407-823-2289.

The Institute of Statistics and Data Mining provides statistical consulting support to graduate students, staff, and faculty members in all stages of their research projects. The Institute’s services include, but are not limited to, design of experiments and surveys, determination of sample sizes, formulation of hypotheses, selection of appropriate analysis using a variety of software packages, interpretation and evaluation of statistical results, preparation of statistical reports, and writing statistical methods and data analyses sections of research grant proposals as well as data management through the data mining lab. The Institute’s faculty members are available to work as co-investigators or statistical consultants on clients’ grant proposals. The Institute also provides statistical support to various government agencies and private organizations. For a brief description of consulting activities of the Institute and research expertise of faculty members, please visit [http://www.cas.ucf.edu/statistics/consulting/institute.htm](http://www.cas.ucf.edu/statistics/consulting/institute.htm). The Institute offers one free consulting session to Ph.D. graduate students. The consulting service is available to faculty members working on funded projects for a modest fee. Associate Professor Nizam Uddin (nuddin@mail.ucf.edu) is the Director of the Institute. However, other faculty members from the Department of Statistics and Actuarial Science are available for assisting clients.

Institute for Technical Documentation

**Director:** Karla Saari Kitalong; CNH 307E; 407-823-6257.

The Institute for Technical Documentation is a research and teaching center within the English Department. Its activities include technical communication consultation, usability evaluation and testing, and the development of communication training programs for clients. The Institute’s experienced faculty and established facilities afford a strong rapport with local businesses and the capacity to assist in a wide variety of technical documentation projects and services.

Oak Ridge Associated Universities (ORAU)

**President and ORAU Councilor for University of Central Florida:** John C. Hitt
**ORAU Corporate Secretary:** Monnie E. Champion; 865-579-3306 [http://www.orau.org](http://www.orau.org)

Since 1989, students and faculty of University of Central Florida have benefited from its membership in Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 91 colleges and universities and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Throughout the Oak Ridge Institute for Science and Education (ORISE), the DOE facility ORAU operates, undergraduates, graduates, postgraduates, as well as faculty enjoy access to a multitude of opportunities for study and research. Students can participate in a number of programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean science, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one month to four years. Many of these programs are specially designed to increase the numbers of underrepresented minority students pursuing degrees in science- and engineering related disciplines, and details on locations benefits can be found at [http://www.orau.gov/orise/educ.htm](http://www.orau.gov/orise/educ.htm)
### ACADEMIC DEGREES, MAJORS AND MINORS

#### Associate of Arts Degree

University of Central Florida students who satisfactorily complete 60 semester hours of acceptable college work may apply for an Associate of Arts degree. University requirements include achievement of a minimum UCF GPA of 2.0, fulfillment of the General Education Program requirements, and completion of the last 20 semester hours in residence at UCF. In addition, any student who desires to receive an A.A. degree must have satisfied the Gordon Rule requirement and passed the College Level Academic Skills Test.

The Associate of Arts degree is awarded only upon application. The application form may be obtained in Academic Services, MH 210 and completed by the end of the first week in the term in which the Associate of Arts degree is to be awarded. A student may not be enrolled as a transient student in another institution during the term in which the Associate of Arts degree is to be awarded. An Associate of Arts degree will not be awarded in the same term that the baccalaureate degree is to be awarded.

#### Baccalaureate Degrees

The University offers the degrees of Bachelor of Arts, Bachelor of Engineering Technology, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Science in Business Administration, Bachelor of Science in Education, Bachelor of Science in Engineering, Bachelor of Science in Nursing, and Bachelor of Science in Social Sciences. These degrees are available in the following Colleges with majors or areas of specialization as indicated:

**Burnett College of Biomedical Sciences**
- Bachelor of Science (B.S.)
  - Majors: Molecular Biology and Microbiology, Medical Laboratory Sciences

**College of Arts and Humanities**
- Bachelor of Arts (B.A.)
  - Majors: Art, Digital Media, English, Film, Modern Languages Combination, French, History, Humanities, Music, Philosophy, Religious Studies, Spanish, Theatre

- Bachelor of Fine Arts (B.F.A.)
  - Majors: Art, Film, Theatre

- Bachelor of Music Performance (B.M.)

- Bachelor of Music Education (B.M.E.)

- Bachelor of Science (B.S.)
  - Majors: Digital Media, Photography

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

- Bachelor of Arts Major: Economics (Regional campuses only)

**College of Education**
- Bachelor of Science (B.S.)

**College of Engineering and Computer Science**
- Bachelor of Science Majors: Aerospace Engineering (B.S.A.E.), Civil Engineering (B.S.C.E.), Computer Engineering (B.S.Cp.E.), Computer Science (B.S.), Electrical Engineering (B.S.E.E.), Electrical Engineering Technology (B.S.E.E.T.), Engineering Technology (B.S.E.T.), Environmental Engineering (B.S.Env.E.), Industrial Engineering (B.S.I.E.), Information Systems Technology (B.S.), Information Technology (B.S.), and Mechanical Engineering (B.S.M.E.).

**College of Health and Public Affairs**
- Bachelor of Arts (B.A.)
  - Majors: Communication Sciences and Disorders, Criminal Justice, Legal Studies, Public Administration

- Bachelor of Science (B.S.)
  - Majors: Cardiopulmonary Sciences, Communication Sciences and Disorders, Criminal Justice, Health Information Management, Health Sciences-Athletic Training, Health Sciences-Pre-Clinical Allied Health Track, Health Services Administration, Legal Studies, Public Administration, Radiologic Sciences

- Bachelor of Science in Nursing (B.S.N.)
  - Major: Nursing

- Bachelor of Social Work (B.S.W.)
  - Major: Social Work

**College of Sciences**
- Bachelor of Arts (B.A.)
  - Majors: Advertising/Public Relations, Anthropology, Interpersonal/Organizational Communication, Journalism, Political Science, Psychology, Radio-Television, Sociology

- Bachelor of Science (B.S.)
  - Majors: Actuarial Science, Biology, Chemistry, Forensic Science, Mathematics, Physics, Psychology Statistics

**Rosen College of Hospitality Management**
- Bachelor of Science (B.S.)
  - Majors: Hospitality Management, Restaurant and Foodservice Management

**Office of Undergraduate Studies**
- Bachelor of Arts (B.A.)
  - Major: Liberal Studies

- Bachelor of Science (B.S.)
  - Majors: Liberal Studies, Social Sciences
### Academic Minors by College

<table>
<thead>
<tr>
<th>College Awarding Minor*</th>
<th>Name of Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burnett College of Biomedical Sciences</td>
<td>Molecular Biology &amp; Microbiology</td>
</tr>
<tr>
<td>College of Arts and Humanities</td>
<td>African American Studies, American Studies, Cognitive Sciences, Digital Media, Judaic Studies, Latin American Studies, Middle Eastern Studies, Music, Women's Studies</td>
</tr>
<tr>
<td>College of Business Administration</td>
<td>Accounting, Business Administration (for non-Business Administration majors), Economics (for non-Business and Business majors), International Business, Management Information Systems, Marketing (for Business and non-Business majors), Real Estate (for Business and non-Business Majors), Sport Business Management (for Business Majors Only)</td>
</tr>
<tr>
<td>College of Education</td>
<td>Coaching, Early Childhood Education, Exceptional Education, Fitness Training, Technical Education and Industry Training</td>
</tr>
<tr>
<td>College of Health and Public Affairs</td>
<td>Aging Studies, American Humanities, American Sign Language, Communication Sciences and Disorders, Criminal Justice, Deaf Studies, Emergency Management and Homeland Security, Health Sciences, Health Services Administration, Health Information Management, Legal Studies, Public Administration, Urban and Regional Planning</td>
</tr>
<tr>
<td>College of Sciences</td>
<td>Anthropology, Anthropology in Multicultural Studies, Astronomy, Biology, Chemistry, European Studies, Interpersonal Communication, Magazine Journalism, Mass Communication, Mathematics, North American Indian Studies, Organizational Communication, Physics, Political Science, Political Science/Prelaw, Psychology, Sociology, Statistics Environmental Studies, Social Sciences-Interdisciplinary</td>
</tr>
<tr>
<td>Rosen College of Hospitality Management</td>
<td>Hospitality Management, Event Management</td>
</tr>
</tbody>
</table>

### Academic Minors by Department

<table>
<thead>
<tr>
<th>School/Department Awarding Minor*</th>
<th>Name of Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multidisciplinary</td>
<td>Space Studies</td>
</tr>
<tr>
<td>Department of Aerospace Studies</td>
<td>Aerospace Studies (Air Force ROTC)</td>
</tr>
<tr>
<td>Department of Anthropology</td>
<td>Anthropology, Anthropology in Multicultural Studies</td>
</tr>
<tr>
<td>Department of Art</td>
<td>Art History, P.A.V.E., Art-Studio Biology</td>
</tr>
<tr>
<td>Department of Biology</td>
<td>Biology</td>
</tr>
<tr>
<td>Department of Chemistry</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Nicholson School of Communication</td>
<td>Interpersonal Communication, Organizational Communication, Mass Communication, Magazine Journalism</td>
</tr>
<tr>
<td>Department of English</td>
<td>Technical Writing and Editing, Creative Writing, Literature, Linguistics, Writing</td>
</tr>
<tr>
<td>Department of Film</td>
<td>Cinema Studies</td>
</tr>
<tr>
<td>Department of History</td>
<td>History</td>
</tr>
<tr>
<td>Department of Mathematics</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Department of Military Science</td>
<td>Military Science (Army ROTC)</td>
</tr>
<tr>
<td>Department of Music</td>
<td>Music</td>
</tr>
<tr>
<td>Department of Modern Languages and Literatures</td>
<td>Humanities, Philosophy, Religious Studies</td>
</tr>
<tr>
<td>Department of Philosophy</td>
<td>Humanities, Philosophy, Religious Studies</td>
</tr>
<tr>
<td>Department of Physics</td>
<td>Astronomy, Physics</td>
</tr>
<tr>
<td>Department of Political Science</td>
<td>Asian Studies, European Studies, Political Science, Political Science/Pre-Law</td>
</tr>
<tr>
<td>Department of Psychology</td>
<td>Clinical, Human Factors, Industrial/Organizational</td>
</tr>
<tr>
<td>Department of Sociology</td>
<td>Sociology</td>
</tr>
<tr>
<td>Department of Statistics</td>
<td>Statistics</td>
</tr>
<tr>
<td>Department of Theatre</td>
<td>Theatre</td>
</tr>
</tbody>
</table>

*Contact the college/school/department for the requirements for each minor.

### Office of Undergraduate Studies

- Environmental Studies Minor
- Social Sciences Interdisciplinary Minor
- World Comparative Studies Minor

Minors are authorized only for certification with baccalaureate degrees. Minors must be certified at the same time as the student's baccalaureate degree. Unless a second baccalaureate degree is earned, certification will not be made at a later time even if additional courses have been completed.

A student may declare a minor up to but no later than the submission of the “Intent to Graduate Form.” Students are strongly urged to declare a minor as early as possible. Contact the student support office of the college offering the minor.

### Graduate Programs

See description at the beginning of each college section. For further information on a particular program or graduate fellowships, contact the departmental office in the respective college or see the Graduate Catalog: [http://www.graduate.ucf.edu/catalog/](http://www.graduate.ucf.edu/catalog/).
The Burnett College of Biomedical Sciences

Dean: P.E. Kolattukudy; BMS 136; 407-823-1312, Fax 407-823-0956
Associate Dean: Roseann White; HPA II 335J; 407-823-5932

The Burnett College of Biomedical Sciences houses the Department of Molecular Biology and Microbiology (including the Medical Laboratory Sciences program and the Office of Student Services and Advisement), the Biomolecular Science Center, and the Pre-Health Professions Advisement Office.

The Burnett College of Biomedical Sciences became the 9th college in UCF on August 10, 2004 with the goal of building a nationally and internationally recognized biomedical research and education enterprise. The college initially has over 1,400 undergraduates and 75 graduate students who, along with faculty, conduct research to find novel treatments for cancer, cardiovascular diseases, neurodegenerative diseases and infectious diseases.

Programs and Degrees

Program
Molecular Biology and Microbiology
Medical Laboratory Sciences
Biomolecular Science

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

Department of Molecular Biology and Microbiology

Chair: P.E. Kolattukudy; BMS 136; 407-823-1312
Assistant Chair: Roseann White; HPA II 335J; 407-823-2914
Undergraduate Coordinator: Dorilyn Hitchcock; HPA II 335A; 407-823-5932
Graduate Coordinator: Karl Chai; BMS 323; 407-823-6122

Faculty: K. Chai; D. Chakrabarti; R. Chakrabarti; S. Chan; J. Cheng; A. Cole; H. Daniell; S. Ebert; C. Fernandez-Valle; R. Gennaro; D.
The Department of Molecular Biology and Microbiology offers a Bachelor of Science degree, a Master of Science degree and a Minor in Molecular Biology and Microbiology. The department also offers a Bachelor of Science degree in Medical Laboratory Sciences. The Molecular Biology and Microbiology programs prepare students for entry into any professional schools in health sciences, such as medicine, veterinary, pharmacy, podiatry, physician assistant, physical therapy, optometry, chiropractic and dentistry. The programs also prepare students entering the technical workforce in biotechnology, pharmaceutical and/or any other medical technology industry. The department is a major partner in the interdisciplinary PhD program in Biomolecular Science.

Program in Molecular Biology and Microbiology

The Core Curriculum in the baccalaureate program, with its broad and thorough background in the physical, computational, and life sciences, provides a solid foundation in concepts and applications of modern biology to contemporary and future problems. The Restricted Electives component of the baccalaureate program allows each student to enhance his/her academic preparation in areas of morphological, clinical, analytical or investigative applications. Students are also encouraged to gain research experience and exposure to specialized topics not taught in formal courses through the mechanism of directed research and independent study contracts with selected faculty. This thorough, but flexible, program provides an excellent preparation for industry, graduate education, and for the four-year health science professions (medicine, veterinary, pharmacy, podiatry, physician assistant, physical therapy, optometry, chiropractic and dentistry).

**Degrees:** Molecular Biology and Microbiology (BS, MS)

**Tracks:** Molecular Biology and Microbiology Preprofessional

**Minors:** Molecular Biology and Microbiology

Molecular Biology and Microbiology UCF/USF Accelerated Medical School Program (BS)

Students must apply for this program through the Burnett Honors College prior to attending UCF. Eligibility requirements include FL residency, unweighted high school GPA of 3.7 and SAT score of 1300 or ACT score of 29. More information about the admission process can be found at. and in the catalog under: Burnett Honors College: UCF/USF Accelerated Medical School Program.

Students desiring admission to USF College of Medicine [USFCOM] through the accelerated program will meet all USFCOM admission requirements and obtain a BS in Molecular Biology and Microbiology after completion of first year of the medical school curriculum.

Program in Medical Laboratory Sciences

**Director:** Dorilyn Hitchcock; HPA II 335A; 407-823-5932

Medical technologists may be involved in medical diagnosis, patient treatment, health screening, laboratory management, research, and laboratory education. They use highly sophisticated analytical equipment for the examination of body tissues and fluids.

The curriculum is designed to give students a thorough background in the physical and biological sciences; to develop the necessary laboratory skills and skills essential to assume leadership roles in management and education; to develop a high level of proficiency in correlating clinical data.

The last two years of sequential courses constitute the upper division portion of the Program. The size of the class to be selected in the Medical Laboratory Science Program is determined by the availability of space and equipment, and available spaces in the clinical facilities. This is a limited access program that requires a separate application to the program. Preference will be given to those who apply by March 1st but applications will be accepted until the class is filled.

The Medical Laboratory Sciences program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAA-CLS: 8410 Bryn Mawr Ave., Ste 670, Chicago, IL 60631) and is approved as a training program by the state of Florida Board of Clinical Laboratory Personnel.

**Degrees:** Medical Laboratory Sciences (BS)

**Tracks:** None

**Minors:** None

**Office of Student Services and Advisement (OSSA)**

*Academic Advisor: Cynthia Maria Contreras; HPA II 335H; 407-823-5787*

*Academic Advisor: Ana Maria Schwindt; HPA II 335G; 407-823-1259*

E-mail: bcbsinfo@mail.ucf.edu

The Office of Student Services and Advisement (OSSA) is the primary office for undergraduate academic advisement in the Burnett College of Biomedical Sciences. OSSA assists Molecular Biology & Microbiology and Medical Laboratory Sciences students in orientation, registration, University policies and procedures, major requirements, course substitutions, and graduation certification. Students interested in pursuing Medical Laboratory Sciences limited access program, should meet with an advisor or the Program Director for more information.

**Biomolecular Science Center**

*Director: P.E. Kolattukudy; BMS 136; 407-823-1312*

The mission of this university-wide interdisciplinary academic Center is to establish vibrant research and training programs under the general theme, "Molecular and Genomic Bases of Diseases and Therapeutics." Center research is focused in four areas: cancer, cardiovascular disease, infectious disease, and neurodegenerative disease.

The Biomolecular Science Center currently works with the Office of Research and the broader UCF research community to establish state-of-the-art research infrastructure and core facilities to support research in modern life sciences.

Within the next five years, the Center plans to establish at least 20 new faculty research teams in biomolecular science within its theme area. Additional faculty will be hired in partnership with other academic units including the College of Optics and Photonics and the Nanoscience and Technology Center. Together with the existing faculty, this growth in life sciences is expected to create a critical mass of people conducting interdisciplinary research at the cutting edge in biomolecular science that can have a significant impact on the biomedical technology industry of the region and the state.

The Biomolecular Science PhD is a major vehicle for training. In addition, the center intends to help establish new degree programs in cooperation with other academic units to generate a skilled workforce that can serve the region and state's growing biomedical biotechnology industry.

**Pre-health Professions Advisement Office**

*Director: Gennaro Lopez; HPA I 124; 407-823-2670*

The Pre-Health Professions Advisement Office serves students university-wide in preparing for and seeking admission to professional health science schools, such as medicine, veterinary, pharmacy, podiatry, physician assistant, physical therapy, optometry, chiropractic and dentistry.

For more information regarding this office, please refer back to the "Academic Advising" section of this Undergraduate Catalog.
Committed to diversity in both the composition of its student body and the programs that it supports, The Burnett Honors College (TBHC) at UCF provides a challenging and exciting educational experience to academically talented students.

TBHC combines the atmosphere of a small college with the intellectual stimulation of a large metropolitan research university. Honors students receive an education that prepares them to enter the best graduate and professional schools as well as pursuing distinguished careers.

Honors classes are small, and course work crosses traditional disciplinary boundaries to encourage critical thinking. Beyond the classroom, special guest lecturers, field trips, study abroad, research opportunities, and university-related service activities expand the horizons of Honors students.

Students in TBHC are actively involved in social activities and course programming. They also have priority registration privileges and access to the Honors Reading Room, computer lab, and Honors housing.

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

Admission to University Honors is granted by TBHC to qualified incoming freshmen. Students who seek admission to University Honors must apply directly to TBHC. It is the student's responsibility to obtain the appropriate Honors College admissions information from the TBHC Office of Student Services and follow the procedures necessary to enter the program. Prospective Honors students and their parents are encouraged to contact Honors staff if they have questions.

Students must maintain a minimum 3.2 UCF GPA and a minimum 3.0 GPA in Honors courses to remain in University Honors. In addition to meeting the GPA requirements, to graduate with University Honors the student must: 1) complete 12 hours of Honors lower-division course work; 2) complete with a "Satisfactory" (S) grade Honors Symposium; and 3) meet upper-division Honors course requirements determined by college or major.

Qualifying students who transfer to UCF with an AA Degree with Honors from a Florida community college that has signed an Honors Articulation Agreement with TBHC will be admitted into University Honors with junior standing. Further information is available from the Honors Office of Student Services.

Students may receive a waiver of credit for one upper-division Honors Seminar upon completion of six or more hours of upper-division credit for the following programs: 1) University Study Abroad Program; 2) The Washington Center; and 3) Research Experiences for Undergraduates (REU) program. Students may receive a waiver of credit for one upper-division Honors Seminar upon satisfactory completion of a graduate level course while taken as an undergraduate student. Students may only receive a waiver of credit once for each category listed.

By the end of the second week of the term in which a student plans to graduate with University Honors, the student must file a completed "Intent to Graduate with University Honors" form with TBHC and complete an exit interview. A student who completes all of the requirements for University Honors will have the designation of "University Honors" entered on the diploma and transcript.

Summary Table of University Honors Requirements

<table>
<thead>
<tr>
<th>Symposium</th>
<th>Lower-division</th>
<th>Upper-division</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 hour</td>
<td>12 hours</td>
<td>See requirements by College</td>
</tr>
</tbody>
</table>

1 When a student has an exceptionally high number of dual enrollment, Advanced Placement, CLEP, or other work that is credited toward GEP hours, he or she should consult an Honors advisor about fulfilling Honors lower-division course work requirements.

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

3 These upper-division requirements for the completion of University Honors are under review and revision by the professional colleges.

The current requirements are as follows:

- **University Honors Upper-Division Program Requirements**: College of Arts and Humanities, College of Education, College of Sciences, Rosen College of Hospitality Management, and Medical Laboratory Sciences, Engineering Technology, and Information Technology majors

  1. Complete one Honors Interdisciplinary Seminar
  2. Complete two Honors upper-division courses, Seminars, or Interdisciplinary Seminars

- **University Honors Upper-Division Program Requirements**: College of Business Administration

  1. Complete one Honors Interdisciplinary Seminar
  2. Complete two Honors upper-division Business courses

- **University Honors Upper-Division Program Requirements**: Burnett Honors College

  1. Complete one Honors Interdisciplinary Seminar
  2. Complete two Honors upper-division courses, Seminars, or Interdisciplinary Seminars

Note: Please refer to the "UCF Courses and Descriptions" section of this Undergraduate Catalog for information on direct prerequisites for the above courses. Consult an Honors advisor to find out when these courses are being offered.

- **University Honors Upper-Division Program Requirements**: College of Engineering and Computer Science Excluding Computer Science, Information Technology and Engineering Technology

  1. Complete one Honors Interdisciplinary Seminar outside the student's department of major (although it may be within the College of Engineering and Computer Science)
  2. Complete two Honors upper-division Engineering courses
  3. Complete two Honors upper-division Computer Science courses

- **University Honors Upper-Division Program Requirements**: College of Health and Public Affairs (COHPA) excluding Nursing majors

  1. Complete one Honors Interdisciplinary Seminar
  2. Complete with a grade of "B" or better ZOO 3733H Honors Human anatomy
  3. Complete with a grade of "B" or better PCB 3703H Honors Human Physiology

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

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

  1. Complete one Honors Interdisciplinary Seminar
  2. Complete with a grade of "B" or better BSC 3404H Honors Quantitative Biological Methods
  3. Complete with a grade of "B" or better PCB 4524H Honors Molecular Biology II

4 An Honor 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 faculty who must present course proposals for consideration by the University Honors Committee. Enrollments are limited to 20 students. At least one of these seminars will form part of the revised University Honors upper-division curriculum currently under adoption by each college or major.

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

http://www.honors.ucf.edu/usf_medschool.html

Eligible UCF freshmen who have been admitted to The Burnett Honors College and are interested in attending medical school have an opportunity to receive guaranteed admission to University of South Florida’s College of Medicine and complete a medical degree in seven years (3+4). Students must apply for the program prior to their first semester at UCF. The first three years of study will be completed at UCF and the fourth year will be done in residence at USF as part of the first year of medical school, provided that students continue to meet all the program requirements. UCF will confer a Bachelor’s Degree following successful completion of the fourth year of study. USF will confer the Doctor of Medicine Degree at the successful completion of the program.

Students may elect to complete a fourth year at UCF, following the more traditional pattern of four years of undergraduate coursework prior to receiving the Baccalaureate Degree, and then enter the USF College of Medicine. Students selecting this option (4+4) must complete the same requirements as the accelerated (3+4) program, but also have the opportunity to take more advanced coursework and...
become involved in additional research activities. Students may elect to decelerate at any point prior to October 31 of the third year.

Transfer students are not eligible for this program.

Students applying for this accelerated program must select a major in one of the following fields in order to receive a Baccalaureate Degree from UCF:

- Molecular Biology and Microbiology
- Other majors are available using the 4 + 4 option

The Burnett Honors College will provide oversight of the student’s progress in meeting Honors requirements and will coordinate overall completion of the first three years of the program. Students will receive advisement and schedule planning assistance each semester from a department advisor and the Pre-professional advisor.

Students attending the USF Medical School during their fourth year of matriculation (3 + 4 track) may transfer a maximum of 30 hours of course work taken at USF toward their UCF undergraduate degree. Such students fulfilling the accelerated 3 + 4 track will receive their BS degree from the University of Central Florida after successfully completing all UCF requirements and the requirements of the first year of medical education at USF.

The USF College of Medicine will provide oversight of the 4-year medical school curricular component of the program.

Eligibility Requirements

- Florida resident
- SAT score of 1300 or ACT of 29
- Unweighted high school GPA of 3.7
- Class rank (if available) top 10%
- Admission to The Burnett Honors College
- Completion of the Accelerated USF Medical School Application Form with one letter of recommendation following admission to The Burnett Honors College
- Submittal of two letters of recommendation from UCF faculty and successful USF College of Medicine interview in May at the completion of the first year
- Detailed program requirements can be found at http://www.honors.ucf.edu/usf_medschool_requirements.html

Honors in the Major

Application for admission to the Honors in the Major program will be made to TBHC following consultation by the student with the Department Chair or Honors in the Major Coordinator in the student’s major department. This program is designed to encourage original and independent work by the student. Two copies of the thesis, project, or creative work will be placed in the University Library with another copy remaining in The Burnett Honors College Reading Room. An Honors in the Major Handbook outlining the procedures for completing this program is available in BHC 102 or online at http://honors.ucf.edu/docs/HIM/himhandbook.pdf

Requirements for admission to Honors in the Major are: completion of at least 60 semester hours of college credit including at least 12 graded upper-division hours at the University of Central Florida; at least a 3.5 GPA within the major and at least a 3.2 GPA in all upper-division courses regardless of institution. Students must also seek approvals by the department from which Honors in the Major is sought and from the Director of Research and Civic Engagement of TBHC.

Honors in the Major is awarded upon completion of an advanced Honors Thesis, and the completion of at least three but not more than six hours of Directed Readings course work as determined by the academic department; and at least three but not more than six hours of Honors Thesis or Project work taken in the college or department of major. Engineering majors must take EGN 4931H in lieu of Directed Readings and will write a thesis proposal as part of their coursework. HIM students in the College of Health and Public Affairs may take three credit hours of Honors Directed Readings or one COHPA Honors Interdisciplinary Course. For Molecular & Microbiology students only, BSC 3404H may substitute for Honors Directed Readings. Students who enroll in the Interdisciplinary Course or in BSC 3404H will write a Thesis Proposal as part of their coursework. Departments or colleges may set additional requirements for Honors in the Major to be completed.

The Honors Thesis is to be completed under the direction of a committee of three faculty members, one of whom is the project or thesis Chair. It is the student’s responsibility to obtain an Honors in the Major Committee Chair who will undertake the responsibility of directing the Honors Directed Readings and Thesis and, in consultation with the student, form the Honors in the Major faculty committee. The Thesis Committee Chair and at least two committee members must be tenured or tenure-earning faculty. The student is responsible for filing an application with TBHC to begin Honors in the Major, which must be signed by the Thesis Committee Chair, the Honors Coordinator of the major department, and the Director of Research and Civic Engagement of TBHC. The student must receive a grade of at least “B” in all Honors in the Major course work to be awarded Honors in the Major.

The student must file an “Intent to Graduate with Honors in the Major” form with the TBHC Office of Research and Civic Engagement by the last day of classes of the semester preceding their anticipated graduation date. A student who completes all of the requirements for Honors in the Major, including maintaining at least a 3.5 GPA within the major and at least a 3.2 GPA in all upper-division courses, will have the designation of “Honors in (subject area)” noted on the diploma and the University transcript. If you have any questions about these requirements, please contact TBHC at 407-823-6402 or honorsresearch@mail.ucf.edu

Student-Mentor Academic Research Teams

TBHC oversees the Student-Mentor Academic Research Teams (SMART) Program which is designed to assist sophomores and juniors identify and work with faculty mentors in a research area of shared interest. SMART is open to all UCF students with a minimum overall GPA of 3.2. A limited number of SMART grants are competitively awarded to students and faculty for fall, spring, or summer semester research. Students seeking more information about SMART should visit http://www.honors.ucf.edu/SMART_main.html

If you have any questions about SMART or the grants program, please contact the Office of Research and Civic Engagement in BHC 102 or by phone at 407-823-6402.

Office of Student Scholarship and Fellowship Advisement

The Office of Student Scholarship and Fellowship Advisement (OSSFA) serves all UCF students who are eligible to apply for prestigious scholarships such as the Rhodes, Truman, Gates, and Marshall. Because TBHC is UCF’s campus representative for all prestigious scholarships, applicants for scholarships that require institutional nomination must contact OSSFA prior to the application process. Students seeking detailed information about prestigious scholarships and the application process should visit http://www.honors.ucf.edu/scholar_main.html. All students who are applying for a prestigious scholarship or fellowship are encouraged to contact the OSSFA office for assistance with their applications, even if the scholarship does not require institutional endorsement. Students seeking more information should contact OSSFA in BHC 103 or by phone at 407-823-0325 prior to the application process.
College of Arts and Humanities
Dean: Jose Fernandez; CAS 190; 407-823-2251
Associate Dean: Lyman Brodie; CAS 190; 407-823-2251
Assistant Dean: Consuelo Stebbins; CAS 190; 407-823-2251

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

In keeping with the aims of the University of Central Florida, the College is responsible for all programs in the areas of humanities and arts. The departments collectively offer more than 60 baccalaureate and graduate programs. For additional information concerning graduate programs, please refer to the Graduate Catalog.

In addition to providing academically strong degree programs in the areas noted above, the College of Arts and Humanities offers a selection of courses that are designed to complement the programs of the other colleges of the University. These offerings include a number of courses necessary to satisfy the University’s General Education program.

A student enrolled in the College as an undergraduate must fulfill all University degree requirements including those for general education as well as the particular requirements set forth within each area of specialization. Computer proficiency is determined within the student’s department of major. Depending on the program evaluation may be via a written test, relevant projects, or specific exercises.
within a course or an entire course dealing with computers. To be certified for graduation, a student must achieve at least a “C” GPA (2.0) in the courses of his or her major and/or minor. Some departments also require a minimum grade in each major course. Students are advised to consult their departmental advisor for specific policies. For programs with a foreign language graduation requirement, American Sign Language is not considered a foreign language and will not fulfill the requirement.

A student whose written or oral communication in any course is deemed unsatisfactory may be referred to the Dean by the instructor. Additional coursework or an individual study program, consistent with the needs of the student, may be assigned and must be completed before the degree is granted.

Preprofessional Programs

Prelaw Program

Prelaw Advisor: Jennifer Mundale; CNH 411L; 407-823-5076

There is no preferred major for pre-law. Law schools accept superior students with a good liberal arts background, regardless of major field. A Bachelor of Arts or Bachelor of Science degree with approximately three-fourths of the course work representing theory content is typically suggested. Majors such as English, History, Legal Studies, Philosophy, Sociology, and Political Science meet this criterion. The quality of undergraduate education for the legal profession, according to the Association of American Law Schools, is grounded in three basic skills and insights: comprehension and expression in words, critical understanding of the human institutions and values with which the law deals, and the creative power of thinking. Law schools require that the Law School Admission Test (LSAT) be taken prior to consideration for admission. General information pertaining to programs of study, the LSAT, careers, and law schools can be obtained from the Pre-law Advisor.

Advisees of pre-law students will be provided in the area where a major is chosen. For example, a pre-law 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 Humanities 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 Humanities offers courses that fulfill admission requirements for professional schools in the Health Sciences. Refer to the Biology Preprofessional section for additional information.

Advisement

Office of Academic Support and Information Services (OASIS)

http://www.cas.ucf.edu/oasis
Director: Lee Anne Kirkpatrick; CNH 202; 407-823-2492; e-mail: oasis@ucf.edu

The Office of Academic Support and Information Services (OASIS) is the primary office for undergraduate academic assistance in the College of Arts and Humanities and the College of Sciences. OASIS assists students in the Colleges with degree requirements, policies and procedures. The Office oversees General Education course evaluation and substitutions as well as evaluation and application of TSD credits.

Questions concerning University and College academic policies affecting the College of Arts and Humanities and the College of Sciences majors should be directed to the OASIS staff in CNH 202 or by calling 407-823-2492. Questions concerning the requirements within a major should be directed to the Department offering the degree. The student should contact the department early in his/her academic career.

Program Planning

Although suggested curricula are available in most areas, students will plan their program in consultation with a faculty advisor appointed by either the major department or the College.

Area Studies Programs

Area Studies programs are multidisciplinary programs that focus on specific regions or cultural groups. UCF has four area studies programs with an international focus: Asian; Judaic; Latin American, Caribbean, and Latino Studies; and Middle Eastern. Although the academic home of these programs is the College of Arts and Humanities, faculty and students from across the entire university may participate in them. These programs may be elected as minors by students majoring in any discipline within the university. For more information about the programs and contact numbers of the program directors see the list below. Contact the Office of International Studies for assistance or referral for all international inquiries regarding academic programs.

Asian Studies - Contact: Consuelo Stebbings; 407-823-2251
Judaic Studies - Contact: Moshe Pelli; 407-823-5039
Latin American, Caribbean and Latino Studies - Contact: Luis Martinez-Fernandez; 407-823-1173
Middle Eastern Studies - Contact: Husain Kassim; 407-823-2803

International Study Centers

Undergraduate Inter-institutional Transient Program

The State University System operates study centers in London, England and Florence, Italy during the Fall and Spring semesters. Students with 27 or more semester hours of credit and a minimum GPA of 2.5 or above in all state universities are eligible to apply for one or both semesters as inter-institutional transient students. Faculty at the centers are drawn from the nine state universities. While credits are earned through Florida State University, which administers the program on behalf of the State University System, credits are fully transferable within the System. Students at the Centers are considered to be resident in their home institutions for attendance and degree purposes.

Classes at the Florence Center emphasize art history, Italian, social sciences, and the humanities; at the London Center, theatre, business, English, history and the social sciences are emphasized. Field trips and museum visits are common to both. For further information, consult the Office of International Studies at 407-862-2300.

Programs, Tracks, and Degrees

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The College of Arts and Humanities

Departments and Programs

African-American Studies: Program
http://www.cas.ucf.edu/africanamericanstudies

Program Director: Dr. JoAnne Stephenson; CNH 201G; 407-823-0026

The College of Arts and Humanities offers a minor in African-American Studies, which gives students the opportunity to explore the African American experience from a multi-disciplinary perspective.

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

American Studies: Program
Contact: Consuelo Stebbins; CAS 190; 407-823-2251  Email: stebbins@mail.ucf.edu

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

Degrees: None
Tracks: None
Minors: American Studies

Asian Studies: Program
Contact: Consuelo Stebbins, CAS 190, 407-823-2251

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

Department of Art
http://reach.ucf.edu/~art
E-mail: art@ucf.edu
Chair: Mark Price; VAB 117; 407-823-2676
Faculty: Abbas, Abraham, Burkhart, Burrell, Chavda, Cooper, Cutler, Francis, Gaudnek, Gonzalez, Hall, Haran, Haxton, Kilmer, Kim, Martin, Poindexter, Reedy, Rivers, Spencer, M. Wyatt

The faculty in the Department of Art teach studio arts, graphic design, and art history. The curriculum in Art provides professional preparation in art history, and in the studio concentrations of animation, ceramics, drawing, 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 Altursa Club of Winter Park.

Degrees: Art (BA, BFA)
Tracks: Animation, Art History, Studio Art
Minors: Art History, Studio Art

Community Arts—PAVE: Program

Program Director: Kevin Haran; VAB 117; 407-823-2676

A minor in Community Arts—Partners in Art in Visual Education (PAVE) is offered for the student who is majoring in Art, Music, Theatre, or English.

Degrees: None
Tracks: None
Minors: Community Arts

English: Department
http://www.english.ucf.edu
E-mail: english@ucf.edu
Chair: Thomas Krise; CHL 405; 407-823-1159

Professors Emeriti: Adick, Omans, Schiffhorst

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, MFA, Ph.D)
Tracks: Literature, Creative Writing, Technical Writing
Minors: Creative Writing, Literature, Linguistics, Technical Writing and Editing, Writing

School of Film and Digital Media
Interim Director: Terry Frederick
407-823-0362
Administrative Assistant: Sue Ann Mann; 407-823-0362

Digital Media: Program
E-mail: dmdirector@mac.com
Division Head: Clint Bowers; OTC5 500; 407-823-1733
Faculty: Blue, Bowers, Cannon-Bowers, Carbone, Croft, Curasi, Deeley, Frederick, Gourlay, Hadrika, Hall, Hughes, Kenny, Moshell, McDaniel, Peters, Salisbury, Stapleton, Sung, Underberg, Weaver, Wirth

Digital Media is a four year curriculum with areas of specialization in Visual Language and Interactive Media. Basic concepts in digital technology, story and performance are fundamental to the curriculum. There are strong interests in digital production and entertainment, serious games, internet issues and the development of digital media presentations via various electronic capabilities. Digital media partners with several companies in the area with internships, research activities and graduate work in game development.

Degrees: Digital Media (BA)
Tracks: Digital Interactive Systems and Visual Language
Minors: Minor, Certificate
Offering a four-year undergraduate curriculum, the Film Department focuses on developing a student’s creative voice, and stresses entrepreneurial filmmaking and the use of new technology in the production and distribution of their work. Encompassing all aspects of filmmaking from conceptualization to distribution, the department prepares students to become effective independent filmmakers. Graduating seniors are required to complete a capstone film, script, or digital media project. Concentrations include: filmmaking, screenwriting, digital cinema, and cinema studies. Community partners include: Universal Studios Florida, Disney-MGM Studios, and the Florida Film Festival.

Students are selected for the “limited access” program by submitting an application form and creative portfolio by December 31. Complete information on faculty, curriculum, and admission requirements is available on the department website. Because this is a limited access program, students should pay close attention to the program admission requirements.

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

Department of History
http://pegasus.cc.ucf.edu/history
Chair: Edmund Kallina; CNH 505A; 407-823-5450
Faculty: Adams, Beiler, Cassanello, Clark, Crepeau, Downing, Farless, Fernandez, Foster, Gordon, Greenhaw, Herlihy, Kallina, Lester, Lyons, Martinez-Fernandez, Solonari, Stockdale, Walker, White, Zhang

History is the study of the past. Its objective is to understand the past, and through the past, to understand the present. The discipline of history is more than 2,500 years old and remains a vital body of knowledge in the 21st century.

Students who are interested in becoming a lawyer should seriously consider a major in history as a foundation for law school. Law is a historical phenomenon and part of the political, social, and economic processes that have contributed to the success of the United States. An understanding of history lends great insight to the function of, and motives behind the legal system. In addition, a careful study of history will enable the student to become effective in oral and written communication, while developing intellectual skills in critical thought and analysis, both of which are invaluable to the study of law.

The Department participates in the programs in Women’s Studies, American Studies, African-American Studies, Asian Studies, and Latin American, Caribbean and Latino Studies.

Degrees: History (BA, MA), Accelerated MA
Tracks: None
Minors: History

Judaic Studies: Program
http://www.cas.ucf.edu/judaic_studies
E-mail: judaics@ucf.edu
Program Director: Professor Moshe Pelli; CNH 201, 407-823-5039 or 823-5129
Faculty: Hanson

The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The program offers instruction, conducts research, and disseminates knowledge in the civilization of the Jewish people from Biblical times to the present day in the major dimensions of its creativity: literature, language, religion, philosophy, law, and social, political and economic organization. Because the roots of western culture and civilization and major world religions lie in ancient Jewish thought and practice as manifested in the Hebrew Bible and subsequent writings, Judaic Studies form an essential component of the university’s curricula.

The program enables students to acquire a foundation of knowledge of Jewish history, the Hebrew language, Jewish philosophy, culture, religious beliefs, and political aspirations; and to understand the contribution of Judaism to western civilization. The courses highlight major aspects of Jewish civilization, focusing on its interaction with other cultures and on the bodies of human knowledge upon which it draws. The program is designed to serve students pursuing careers in general or Jewish education, in 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, Certificate

Latin American Program
E-mail: martfern@mail.ucf.edu
Program Director: Luis Martinez-Fernandez; VAB 203, 407-823-1173

The Latin American Area Studies Minor provides students with an interdisciplinary knowledge of, and the necessary tools to understand Latin America, the Caribbean and Latinos in the United States. Students completing the minor will be prepared to apply their knowledge on the areas covered by the minor in a variety of careers including, but not limited to education, government, journalism, foreign service, social and community service, international trade, and public relations.

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

Middle Eastern Studies Program
E-mail: kassim@mail.ucf.edu
Program Director: Husain Kassim, CNH 411J, 407-823-2803
Advisory Board Co-Chairs: John C. Bersia, Janan Smither

An interdisciplinary minor designed to offer students both an overview of Middle Eastern civilization and a detailed study of its most important features. The focus of the program is on the religious, political, historical and social forces shaping the region.

Course work will include classes from the curricula of participating programs (modern languages, history, humanities, Judaic studies, philosophy and political science).

Degrees: None
Tracks: None
Minors: Middle Eastern Studies

Department of Modern Languages and Literatures
http://www.cas.ucf.edu/lforlang/
E-mail: foreignlanguages@ucf.edu
Chair: Paul Giordano; CNH 523, 407-823-2472
Faculty: Barberet, Barsch, Deck, Fabery, Fernandez, Ferri, Folse, Garcia, Gervasi, Korosy, Letice, Lopez, Montalvo, Nalbone, Negy, Pollgreen, Prucha, Purmenski, Redmon, Rivera, Spina, Spina,
The Department of Philosophy offers a Philosophy major and a Humanities major, with tracks in multicultural Humanities and in Religious Studies, as well as minors in Philosophy, Humanities, Religious Studies, and Cognitive Sciences. 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, students must meet all the requirements for graduation as set forth by the University, the College of Arts and Humanities, and by the Department of Modern Languages and Literatures.

Degrees: Philosophy (BA), Humanities (BA, MA), Modern Language Combination (BA), TESOL (MA)
Tracks: None
Minors: French, German, Italian, Spanish

Women’s Studies: Program
http://www.cas.ucf.edu/womensstudies
E-mail: womenst@ucf.edu
Program Director: L. M. Logan; CNH 201H; 407-823-6502
Faculty: Preston, Oliver

The Women’s Studies program offers an interdisciplinary minor and a certificate in Women’s Studies, in cooperation with several departments. The program examines women’s situation and contributions in past and present societies, women’s issues, and theories concerning women and gender.

Degrees: BA (Liberal Studies)
Tracks: Women’s Studies Track in Liberal Studies
Minors: Women’s Studies, Certificate
College of Business Administration

Dean: Thomas L. Keon, BA 230; 407-823-2181
Associate Dean: Bradley M. Braun, BA 230L; 407-823-5094
Associate Dean: E. Taylor Ellis, BA2 101-W; 407-823-2187

The College Mission Statement can be condensed into one sentence: The College of Business Administration advances the University’s mission and goals in providing intellectual leadership through teaching, research, and service. The vision is to create within the College an environment that nurtures learning and exploration, provides opportunities for faculty to disseminate information, provides educational opportunities for students, businesses and the general public, and provides a platform for many and various forms of partnerships.

Nurturing Learning and Exploration: The College is a catalyst for students, faculty, and the general public to gain a better understanding of the various fields of business. Educational experiences inspire learning and encourage exploration.

Dissemination of Information: Students are encouraged through the learning process to gather information to be used by them in future business vocations. Both students and faculty are encouraged to pursue outlets to share “new” information within their fields and to business practitioners.

Provide Educational Opportunities: Degree seeking individuals are provided with curricula leading to baccalaureate, masters, and doctoral programs. The College is also committed to providing more opportunities with structured learning experiences that “certify” non-degree seeking individuals as having accomplished a minimum requirement for a selected career.

Provide a Platform for Partnerships: The College is engaged in specific areas of excellence that provide opportunities for learning, exploration, and sharing. These specific areas of excellence take the form of Centers and Institutes, and selected niche areas of College units.

All undergraduate and graduate programs are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Admission to the University of Central Florida does not imply admission to the College of Business Administration. 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, and a 2.0 GPA.
- Common Program Prerequisites with a 2.0 GPA and "C" or better in each class.

Students who otherwise meet the University admission requirements, such as entering freshmen and transfer students, will be placed in a major pending category until they meet the requirements set forth above. Only grades of "C" (2.0) or higher will transfer into the program. Each student should attend orientation for academic advising and should meet with an academic advisor in the College to outline a program of study.

BE2010

UCF Business... the Best Undergraduate Business Education in Florida. In 1993 the UCF Business faculty established a goal to deliver the best undergraduate business education in Florida. The product of the alumni, faculty, business leaders, and students, the Business Education 2000 (BE2000) curriculum focused on four competencies that are integrated throughout all coursework: Teamwork, Communication, Creativity, and Adapting to Change. These four competencies were expanded in 2002 to include Ethics and Diversity and constitute the BE 2010 curriculum. Faculties, working with representatives from the business community, help you develop these competencies as you work through the following required courses in the Common Body of Knowledge:

- GEB 3031 Cornerstone
- GEB3356 Introduction to International Business
- BUL 3130 Legal and Ethical Environments of Business
- ECO 3411 Quantitative Business Tools II
- FIN 3403 Business Finance
- MAN 3025 Management of Organizations
- ISM 3011 Essentials of Management Information Systems
- MAR 3023 Marketing
- MAN 4720 Strategic Management

Grade Point Average Requirements

For graduation the student must have maintained a minimum 2.0 GPA in course work taken in the College of Business Administration and a minimum 2.0 GPA in the course work required in the major, and a UCF minimum GPA of 2.0. In addition, all majors within the College of Business Administration also require a grade of "C" (2.0) or better in each course within the major.

Student Load

A student who is enrolled in 15 semester hours of course work is considered to be carrying a normal academic load. Students in the College of Business Administration desiring to take more than 17 semester hours in the Fall and Spring terms, and 14 semester hours in the Summer term must obtain permission from the College.

Community/Junior College Transfer Notes

1. Admission requirements can and do vary among the business and accounting programs at the ten universities comprising the State University System. To ensure that they have met all prerequisite course eligibility requirements, transfer students from Florida’s community and junior colleges should complete the following courses as part of their Associate of Arts degree: ACG 2021 (or ACG 2001 and ACG 2011), ACG 2071, ECO 2013, ECO 2023, MAC 2233, STA 2023, (or QMB 2100) and CGS2100. At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401 Business Quantitative Tools I. Students who have completed either MAC 2233 or STA 2023, but not both, must take ECO 3401. Completion of these courses will satisfy all prerequisite course requirements for all business and accounting degree programs and will ensure that a student will receive further consideration for admission.

2. Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in UCF’s Business program. Only grades of "C" (2.0) or higher transfer into the program.

3. Florida Public Community College students are advised to complete the Associate of Arts Degree including:
   a. The general education requirements
   b. The one year Accounting and Economics sequence
   c. College Algebra
   d. CGS 2100

4. Professional courses should not be taken at a community/junior college in the areas of Accounting, Economics, Management Information Systems, Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year course areas in the College of Business Administration and cannot be satisfied with community/junior college courses.

5. A minimum of 12 semester hours must be completed at UCF within each individual major and 30 hours within the UCF College of Business.

Advisement

Undergraduate Student Services

Director: Helen Y. Hill; BA2 101; 407-823-2184

The Office of Undergraduate Student Services (USS) is the primary office for undergraduate assistance in the College of Business. Degree requirements, registration, and any questions concerning University and College academic policies affecting Business majors should be directed to the Office of Undergraduate Student Services staff in BAIL 101 or by calling 407-823-2184. Visit USS’s home page at: http://www.bus.ucf.edu/uss/

Programs and Degrees

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<td>Business (Regional campuses only)</td>
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Departments and Programs

Kenneth G. Dixon School of Accounting

Director: R. Roberts; Director, BA 437; 407-823-2871
Assistant to Director: M. Hampton; BA 438; 407-823-5678

Faculty: Bandy, Bobek, Dwyer, Evans, Goldwater, Johnson, Judd, Kellner, Klintworth, Lacy, Mahoney, Roberts, Roush, Savage, Smith, Vaughan, Veit, J. Welch,

Mission Statement

The mission of the Kenneth G. Dixon School of Accounting is to provide high quality undergraduate, graduate, and professional educational programs responsive to the needs of students, community, and the profession. Teaching, research, and service are the means of accomplishing this mission. The School offers rigorous programs emphasizing communication skills, critical thinking, ethical practices, interpersonal skills, and technical competence preparing graduates for entrance into the accounting profession.

The School encourages intellectual contributions by faculty through instructional development, applied scholarship, and basic scholarship. The School provides service by participating in university governance, professional organizations, and professional educational programs. (Adopted by the faculty on March 4, 1993, and revised by the faculty on January 10, 1997.)

To prepare for any business career, a strong foundation in accounting and taxation will provide the variety of skills necessary to succeed in today’s complex financial world. An accounting degree prepares students for entry into the fields of industrial, managerial or governmental accounting, with a strong potential for career advancement.

The objective of the baccalaureate program with a concentration in accounting is to provide basic conceptual accounting and business knowledge as a foundation for accounting career development. The undergraduate degree also is the first step toward becoming a Certified Public Accountant, Certified Management Accountant and Certified Internal Auditor. The Kenneth G. Dixon School of Accounting also offers master’s degrees in accounting and taxation. These programs complete the education required to become a CPA. A rigorous and comprehensive accounting curriculum at UCF focuses on the real-world challenges of accounting, emphasizing problem solving.
The College of Business Administration

DEGREES

The program in finance is designed to provide the student with broad knowledge in finance, including business finance, investments, financial institutions, international finance, risk management and insurance, and real estate. The program provides the student with the theoretical background and tools of analysis required for making effective financial decisions. The study of finance prepares the student for careers in business financial management.

Distinctive Benefits

- Students prepare for career opportunities in business and corporate financial management, commercial banking, real estate, investment management and counseling, investment banking, mortgage banking, multinational business, insurance and government.
- Students who major in finance are sought by both financial and non-financial firms.
- The rapidly changing domestic and international economies need individuals who have the skills to make sound financial decisions.

Degrees: Finance (BSBA, Real Estate (BSBA))

Minors: International Business, Real Estate, Finance

Certificates: Banking, Commercial Real Estate, Investments Real Estate, Residential Real Estate, Corporate Finance, Investments

General Business

Faculty Advisor: B. Moore; BA 466; 407-823-5256

This option allows students to develop a general program of study which will satisfy career objectives not provided for by the specialized areas of concentration. To pursue this option, students should seek advisement in the Department of Economics. Academic advisor will be assigned to assist each student in developing a meaningful program of study.

Degrees: General Business (BSBA, MBA, Ph.D.)

Minors: For non-Business majors

Department of Management

Chair: F. Jones; BA 335; 407-823-2679

Faculty: Ambrose, Arnaud, Barringer, Becker, Bogumil, Archer, Callahan, Connell, Fernal, F. Ford, R. Ford, Holland, Huseman, Keon, Migenes, McDonald, Putchinski, Quinn, Schminke, Stone, Sussan, Uhl-Bien, Viggiano

Tomorrow’s managers must be prepared to meet the challenges of a highly dynamic and rapidly changing business environment. The objective of the Management program is to prepare students for the excitement and opportunities that this presents. To learn about management, students study the processes and techniques of leadership, planning, controlling and staffing of both small and large organizations.

The curriculum is designed so that students can choose to concentrate in specialized areas of Entrepreneurship and Human Resource Management, or students can choose to major in General Management which allows them to take a broader variety of course work and prepares them for general management responsibilities.

The General Management major prepares students for a career that involves decision making responsibilities regardless of organization or assignment. The department goal is to emphasize the expertise, knowledge, and skills necessary to be not only a team player, but ideally a team leader. Whether the student is studying leadership, motivation, staffing, or international management, the curriculum will sharpen students’ skills in problem identification, analysis, and solution. The major can lead to a variety of rewarding careers in management positions throughout the organization. The department offers more specialized training - using the same approach - via our Human Resource Management major. Career paths include positions in training and development, personnel and employee relations, equal opportunity and labor relations, human resource consulting, and more. For students interested in starting their own business or working for smaller fast growing organizations, the department offers specialized training via the Entrepreneurship Track.

Distinctive Benefits

- Excellent faculty, known for their creativity and enthusiasm in the classroom, and their commitment to students in and out of the classroom.
- A broad-based training that will open up opportunities in high-growth career areas.
The College of Business Administration

- Internships that provide real-world experience and enhanced job opportunities.
- A “hands-on,” applied focus in our courses.

Degrees: Management (BSBA), Human Resources (MS)
Tracks: General Management, Entrepreneurship, Human Resource Management
Minor: Entrepreneurship

Department of Management Information Systems
Chair: P. Cheney; BA 308; 407-823-3106, Fax 407-823-2389
Faculty: Courtney, Goodman, Haynes, Hightower, Hornik, Jiang, Johnson, Leigh, McNamara, Porth, Odisho, Saunders, Szymanski, Thienel, Tidwell, Van Slyke, West

Information systems form both the backbone and nervous system of virtually every business organization today. With the increasingly important role that information systems play in modern business organizations, the timing could not be better to enter this discipline. The objective of the Management Information Systems (MIS) program is to prepare students for exciting and challenging careers in the information systems arena.

MIS involves the study of how organizations use information and information technology to overcome problems or create opportunities. The MIS major prepares students to become problem solvers in a time when information is advertised as the “fourth factor of production,” and in an era when government agencies report that one of ten information technology positions is unfilled.

The MIS major prepares students for such entry-level positions as system analysts, programmer-analysts, and database analysts by providing them with a thorough grounding in the principles of information system design and construction. The MIS curriculum includes coverage of computer programming, database design and implementation, networks and data communications, systems analysis, systems implementation, managerial decision-making, and managerial aspects of organizational information systems. The strength of the major is its combination of technology skills with a thorough grounding in the principles of all the functional areas of business.

The MIS major is ideal for students who excel at solving problems and who can take responsibility for implementing their solutions in working organizational systems. Students in the program are trained to be comfortable shifting between the big picture and the detailed view of a problem and its solution. They also have their communications skills refined so that they are better able to communicate effectively as they discover the nature of the organizational problem (or opportunity), as they present their solutions, and as they manage the system implementation.

Successful MIS graduates have a variety of career options open to them, which lead to competitive salaries and travel opportunities. While many graduates join internal MIS staffs or consulting firms, there is a wide array of choices available to them. Graduates can choose between large and small companies, emerging and stable industries, and from among a multitude of career paths.

Distinctive Benefits
- Challenging field of study that rewards inquisitive students who are willing to work toward a goal.
- Student internship opportunities throughout the Central Florida region.
- An active student organization (MISA).
- Excellent job opportunities and starting salary prospects.
- Ability for graduates to apply and integrate all of the functional areas of business early in their professional careers.

Degrees: Management Information Systems (BSBA), Master of Science, Management Information Systems (MS/MIS)
Minors: Management Information Systems

Department of Marketing
Chair: R. Michaels; BA2 307; 407-823-2108; http://www.bus.ucf.edu/marketing/index.htm
Faculty: Allen, Borrieci, Crowson, Das, Davis, Desiraju, Echambadi, Ganesh, Gundy, Gupta, Harris, Howatt, Jordan, Kim, Maryott, Mayfield-Garcia, Michaels, Rubin, Sooder, Stock, Whang, Yoon

The Marketing major at UCF is called Impact Marketing 2010, or simply IM2010. It provides a superior education in the foundations of marketing such as research, customer behavior, professional selling, management, and strategy. A wide assortment of electives is designed to let each student round out his/her education according to specific career interests, whether that might be retailing, advertising, e-business, research, sales, sports marketing, healthcare, entertainment marketing or services. Internships are also readily available, and count as a marketing elective. Skills emphasized and developed throughout the curriculum are teamwork, communication, creativity, quantitative analysis, computing, problem solving, decision-making, thinking globally, and driving change.

A great benefit for Marketing majors is the opportunity to earn a certificate in any of seven areas of career interest: Selling and Sales Management, Retailing Management, E-Marketing, Sports Marketing, Healthcare Marketing, Entertainment Marketing and Services Marketing. Students can design a personalized certificate program combining elective courses with an internship that will enhance their value to potential employers.

The department offers an 18-hour minor in Marketing. This course of study provides a strong basic education in Marketing for business students with majors other than Marketing or students with majors from other colleges. Earning a minor in Marketing can add significant value and career flexibility for any student with any major.

Marketing is vitally important to all organizations and individuals, from global corporations to small businesses, from CEOs to the proprietors of small retail stores, from global manufacturing operations to a new dot com startup. Nearly one-third of the civilian work force in the United States is employed in jobs related to marketing. Marketing offers a variety of interesting and challenging career opportunities, such as professional selling, retailing, advertising, marketing research, sports marketing, distribution and logistics, purchasing, and e-business. In addition, students with marketing degrees may find excellent job prospects in international markets. Marketing career opportunities also exist in a variety of non-business organizations, including hospitals, museums, universities, and government and social service agencies. Marketing also provides a strong career foundation for movement into top management positions.

Distinctive Benefits
- IM2010 program for Marketing majors recognized as one of the most innovative in the country.
- Seven certificate programs are available for Marketing majors.
- An 18-hour Marketing minor is available for students with other majors.
- Twenty-two dynamic faculty members are among the strongest teachers in the college.
- Comprehensive course offering each semester and summer -you can finish!
- Full-time faculty teach approximately 90% of undergraduate classes offered by the Department.
- Strong emphasis on preparing students for marketing management careers.
- Approximately 15 scholarships awarded annually on a competitive basis.
- Opportunities to participate in honors in the major, internships, independent projects, and directed studies.
- Opportunities to participate in national award-winning student chapters of the American Marketing Association and The Society for Marketing Professional Services (SMPS).

Degrees: Marketing (BSBA)
Tracks: Generalist, Sales
Minor: Marketing

For more information, visit http://www.bus.ucf.edu/marketing/index.htm, or call 407-823-2108. Department office is located in BA 353.
The role of the College of Education at the undergraduate level is to provide a high-quality education for students in preparation for careers in early childhood, elementary, secondary, exceptional, physical, technical education, and sports and fitness professionals. The College of Education is dedicated to preparing professional educators/reflective practitioners who meet the needs of our schools and society.
Admission to the College of Education

Admission to the College will be granted when students meet the following requirements:

- Complete the University General Education requirements or its equivalent, i.e., an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete common program prerequisite courses

Transfer Notes:
Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information. Students transferring from a Florida Public Community College are cautioned to pay careful attention to the General Education and Common Program Prerequisites sections because the revision of State Board of Education Rule 6A-5.066 has made programs highly prescriptive, which may result in additional coursework to satisfy degree requirements. Students are responsible for all ESOL assignments for all UCF ESOL-infused courses that may be transferred from other institutions.

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

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

Office of Student Affairs

Executive Director: Tina Smilie, ED 110, 407-823-3723
Located in the Education Complex in Suite 110, the Office of Student Affairs is dedicated to facilitating the success of students seeking advisement, assistance, and support in the College of Education. The Office of Student Affairs is organized into the Offices of Clinical Experiences, Minority Programs in Education, and Student Services.

Mission Statement

The mission of the College of Education Office of Student Affairs is to provide seamless services and resources to current and prospective students including recruitment, pre-advising, orientation, program advising, financial assistance, internships, graduation certification, and graduate education. To promote student success, we collaborate with and support College of Education faculty, administrators, and community partners.

Office of Clinical Experiences

Director: Carolyn Walker Hopp, ED 110, 407-823-2436
http://reach.ucf.edu/~edintern
Clinical experiences provide students with a broad range of instructional experiences in various school settings developed through cooperative planning with local school district administrators and teachers. Clinical experiences are an integral part of every degree program and consist of early field experiences as well as Internship I and Internship II. Placement of students is the responsibility of the College of Education.

Students must be aware: if they have been arrested for certain crimes, they may not be able to be placed in internships and/or hired as a teacher. All school districts require fingerprinting prior to Internship I. All applications for internships are made through the Office of Clinical Experiences.

Application deadlines for all Internships are as follow:
March 1 for Fall semester
September 15 for Spring semester

Admission to Internship I

Admission to Internship I will be granted to students who have been admitted to the College of Education and who meet the following additional requirements:

- Have on file in the University admissions office passing scores on all 4 parts of the Florida Teacher Certification Examination General Knowledge Test and/or Level Academic Skills Test (CLAST) (no alternatives or waivers are accepted)
- Possess minimum overall GPA of 2.5
- Possess minimum specialization GPA of 2.5
- Possess minimum professional preparation GPA of 2.5
- Achieve a “C-” (1.75) or better in all prerequisite methods/specialization courses
- Complete a formal application for Internship I online by deadlines listed above
- Meet any special departmental requirements
Be recommended by the faculty of the department of the student’s major
Internship I is a three semester hour experience. Students are assigned to work with certified supervising teachers under the direction of a university coordinator. Students are enrolled in a limited number of related professional courses during the experience. Additional courses may be taken only with the consent of the academic program coordinator and department chair.

Admission to Internship II
Internship II is a 9-12 semester hour experience (depending on the program) normally completed during the student’s last semester. Internship II is considered a full-time experience, and students are permitted to enroll in other classes only with the consent of their academic program coordinator and department chair. Admission to Internship II will be granted when students have met the following requirements:
- Successfully complete Internship I
- Have on file passing scores on all 4 parts of the Florida Teacher Certification Examination General Knowledge Test and/or College Level Academic Skills Test (CLAST) (no alternatives or waivers are accepted)
- Possess a minimum overall GPA of 2.5
- Possess minimum professional preparation GPA of 2.5
- Achieve a “C-” (1.75) or better in all prerequisite methods/specialization courses, and a minimum GPA of 2.5 is required in the professional preparation and specialization areas.
- Complete a formal application for Internship II by deadline
- Be recommended by the faculty of the department of the student’s major
- Meet any special departmental requirements
Students must also have completed all methods courses and most of their specialization courses. Some programs (such as Elementary Education) require all specialization courses to be completed prior to Internship II. Students must also be approved for admission by the faculty in the department of the student’s major. Internship II experience is completed locally.

Office of Minority Programs in Education
Director: TBA; ED 110, 407-823-0184
http://pegasus.cc.ucf.edu/~mpie/
The Office of Minority Programs in Education (MPIE) is designed to recruit and retain diverse students as they prepare for a career in education. MPIE provides future educators with financial assistance, academic support, and professional development. Each student admitted into the program is paired with a faculty mentor in the College.

Program Objectives
- Recruit and retain diverse students interested in careers in teaching
- Promote academic excellence and foster professional development
- Assist in job placement
- Encourage community involvement and commitment

Scholarship Requirements
Students must meet the following criteria:
- Eligible groups: African-American/Black, Asian-American/Pacific Islander, Hispanic, or American Indian/Alaskan Native
- Be a Florida Resident
- Be admitted into the UCF-College of Education as a degree-seeking undergraduate student
- Minimum semester and overall grade point average of 2.5
- Submit Scholarship Application

Office of Student Services
Director: Andrea Withington, ED110, 407-823-3723
http://pegasus.cc.ucf.edu/~stuservw/
The College of Education Office of Student Services assists students with orientation, registration information, general academic advisement, college and University academic requirements and graduation certification. Education Pending majors are advised in the Office of Student Services. Students are assigned a faculty advisor upon meeting College of Education admission requirements. Students are encouraged to make an early appointment with an academic advisor. Information regarding majors offered by the College of Education can be obtained in the Office of Student Services or at http://www.edcollege.ucf.edu/ (click on Student Services).
Admission to the University of Central Florida does not imply admission to the College of Education. Students will be allowed to enroll in the 3000/4000 level courses taught by the College of Education after they have been admitted to the College.

Graduation Requirements
To qualify for graduation, a student must successfully complete all coursework to include a minimum overall GPA of 2.5, a minimum 2.5 GPA in all specialization courses, and a minimum 2.5 GPA in professional area courses. In addition, students must pass all applicable sections of the Florida Teacher Certification Exam (FTCE) and complete a portfolio according to program guidelines to meet graduation requirements.

Alternative Certification for Non-Degree Students
All students who have earned a Baccalaureate degree from an accredited institution and who desire to be certified in Elementary Education must complete an undergraduate or masters degree program in Elementary Education. For other certification areas for which the College has programs, students may elect to complete 1) an undergraduate degree 2) a graduate degree or 3) an alternative program as a post-baccalaureate student. Students must meet regular admission requirements for the College of Education and Teacher Education.

Department of Educational Studies
Chair: Karen L. Biraimah; ED 209B; 407-823-2426
Assistant to the Chair: Ximena Meja; ED 206-E; 407-823-6579
Faculty: Ackley, Allen, Alvarez, Becker, Boote, Brown, Condly, Gill, Slut-Eriksson, Goodman, Hewitt, Holt, Hutchinson, Johnson, Kaplan, Koger, Luckett, Lue, Meyer, Miller, Munroe, Offer, Short, Stewart

The Department of Educational Studies serves all students in the College of Education. The Department provides instruction in the core professional courses that address the competencies and skills needed by all undergraduate majors. These courses emphasize learning theory, teaching strategies, diversity, and the social, philosophical and historical foundations. The Department provides courses for all masters and doctoral programs in education, and coordinates the core courses for the Curriculum and Instructional Doctoral Program and the Graduate Certificate in Initial Teacher Preparation. The Department houses the Masters of Education in Curriculum and Instruction Program, with M.Ed., M.A. and Graduate Certificate options in Gifted Education, Urban Education, and Multicultural and Global Education. Educational Studies graduate courses provide opportunities for students to advance their knowledge and skills related to multicultural, social, and psychological factors, curriculum and instructional theories, and the historical and philosophical factors that influence education.

Department of Child, Family, and Community Sciences
Chair: TBA; ED 209-H; 407-823-2595
Assistant to the Chair: Roanne G. Brice; ED 206-D; 407-823-0664
Faculty: Albers, Balado, Blanes, Casado, Cross, Daire, Dieker, Edwards, Englehart, Ezeil, Fuller, Hartle, Hayes, Hines, Hughes, Jennings, Jones, Klein-Ezeil, Lambie, Little, Manning, Martin, Miller, Mumford, Oliva, Platt, Ray, Robinson, Szente, Taub, Thomas-Richmond, Wienke, Young

Undergraduate academic major programs leading to bachelor's degrees and certification are offered in Child, Family and Community Sciences. Students who major in Early Childhood Education are qualified to teach Pre-Kindergarten through grade 3 upon graduation and receipt of a Pre-Kindergarten through Primary Florida Teaching Certificate. (Pre-Kindergarten Exceptional Student Education is embedded in this certification). Students majoring in special education are certified K-12 in exceptional student education. Students are responsible for completion of program requirements and are encouraged to review their programs with an assigned advisor.

Several graduate level programs are available in the department:

The Master of Education in Exceptional Education: Exceptional Student Education is available for teachers already certified in an area of exceptional education, whereas the Master of Arts in Exceptional Student Education is designed for non-education majors or previously certified teachers in another field. Each program may lead to teacher certification.

Certification and Masters level programs are available in Early Childhood Education and Counselor Education, with an emphasis on school counseling or mental health counseling. A Specialist Program is available in School Psychology. A graduate level certificate program is available in Sports Leadership. The Ph.D. in Education is available with tracks in Counselor Education and Exceptional Education.

Department of Teaching and Learning Principles
Chair: Robert Williams; ED 209-D; 407-823-4836
Assistant to the Chair: Dr. Lawrence Mione, ED 206-C, 407-823-0523

Elementary/Middle Education
The Elementary Education program is designed for prospective teachers interested in the education of children, five through twelve years of age. Students who major in elementary education are qualified to teach grades kindergarten through six upon graduation and receipt of a Florida teaching certificate.

Secondary/Post Secondary Education and Training
Programs in this area are designed for prospective teachers/trainers interested in working with students in a specific academic or vocational area in middle/junior high school, high school, selected post-secondary educational settings, and selected technical training settings in business and industry. Specialization is available in Biology, Chemistry, English, Mathematics, Physics, and Social Science Education, Sports and Fitness, and Technical Education and Industry Training. Graduate level programs are available in Art Education, Elementary Education, English Language Arts Education, Educational Media, K-8 Mathematics and Science Education, Mathematics Education, Music Education, Physical Education, Science Education, Social Science Education, Reading Education and Vocational Education. The Ph.D. in Education is available with tracks in Mathematics Education and Elementary Education.

K-12 Education
Programs in this area are designed for prospective teachers in content areas that may be applied in any school setting from Kindergarten through grade twelve. Specialization is available in Art, Foreign Language (French or Spanish), and Physical Education.

Department of Educational Research, Technology and Leadership
Chair: Conrad Katzenmeyer; ED 209D; 407-823-4835
Assistant to the Chair: Christine Karper; ED 206B; 407-823-0623
Faculty: Blasi, Bozeman, Cornell, Evans, Gunter, Haha-Vaughn, Hirumi, House, Magann, Murray, K., Murray, K., Orwig, Paugh, Pawias, Robinson, J., Scheick, Slivo, Taylor, Tubbs, Wallace, Witta

The Department of Educational Research, Technology and Leadership provides graduate programs in the following areas: Educational Leadership, Research, Evaluation and Assessment, Technology, Higher Education and Policy Studies.
College of Engineering and Computer Science

Dean: Neal C. Gallagher; ENG2 202; 407-823-2156
Interim Executive Associate Dean for Research: Debra Reinhart; ENG2 202; 407-823-2156
Associate Dean for Academic Affairs: J. F. Nayfeh; ENGR 107; 407-823-2455
Assistant Dean for Distributed Learning: Samuel Richie; ENGR 289; 407-823-5765
Director, Academic Support Services: Melissa Dagley-Falls;

Director, of College Honors Programs: Mohamed Abdel-Aty, ENGR2 301H 308; 407-823-21795657
Website: http://www.cest.ucf.edu
Assistant Dean for Distributed Learning:
Samuel Richie; ENGR 289; 407-823-5765
Director, Minority Engineering & Computer Science Programs: Jacqueline Smith;
ENG 281; 407-823-3466
Undergraduate Majors and Degrees

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<th>Major</th>
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<td>Aerospace Engineering</td>
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<td>Civil Engineering</td>
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<tr>
<td>Civil Engineering - Construction Engineering</td>
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<td>Computer Engineering</td>
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<tr>
<td>Computer Engineering - Software Engineering</td>
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<td>Computer Science</td>
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<td>Electrical Engineering - Electrical</td>
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<td>Electrical Engineering - Wireless</td>
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<td>Microelectronics Concentration</td>
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<td>Electrical Engineering Technology - Computer Systems Concentration</td>
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<td>Electrical Engineering Technology - Electrical Systems Concentration</td>
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<td>Engineering Technology - Design Concentration</td>
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<td>Engineering Technology - Operations</td>
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<td>Engineering Technology - Space Systems</td>
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<td>Industrial Engineering</td>
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<td>Information Systems Technology</td>
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<td>Information Technology</td>
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<td>Mechanical Engineering - Materials</td>
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Accelerated BS/MS Degree Program

All of the Engineering and Computer Science departments except for the Departments of Civil and Environmental Engineering.

Engineering Technology, and the Information Technology Program are offering an Accelerated BS/MS degree program which will allow students of high academic standing to complete an MS degree at an accelerated pace. The generic rule for students in this program is that they will be allowed to use up to twelve hours of selected courses with a grade of “B” or higher toward fulfillment of both the BS and MS degree requirements. Interested individuals should see the program descriptions in the graduate and undergraduate catalogs. They may also contact the department Assistant Chair and/or Graduate Coordinator if they have any further questions.

College Mission Statement

The CECS primary mission is to further the knowledge and practice of the engineering and computer science professions nationally and internationally by:

- Providing the highest quality and innovative learning/teaching environment in undergraduate and graduate curricula, to prepare a diverse student body to be effective, contributing members of a technological society and life-long learners.
- Expanding the knowledge base of engineering and computer science through dynamic research and applying new discoveries for problem solving.
- Providing collaborative leadership with external partners in advancing technological breakthroughs for the economic and social well being of humankind.
- Extending educational opportunities to technology practitioners locally, nationally and globally to enhance human performance, and economic and technical development.

College Core Values

- Honestly: Tell the truth and be aboveboard and candid.
- Integrity: Foster trust and be accountable for one’s actions.
- Professionalism: Adhere to a professional code of ethics, continuing to learn while striving for excellence.
- Family: Pursue life outside of the professional field, giving family a priority.
- Altruism: Work as a team; help each other; and sacrifice for the common good. Understand that each individual’s work is part of a larger purpose and plan.

College Goals

- A national caliber, diverse College that is recognized with leadership in research and teaching.
- Distinguished, innovative undergraduate programs to provide graduate-like education for undergraduates.
- High quality graduate education to meet the needs of Florida and the U.S. and to achieve national and international prominence.
- A model for university outreach, globalization and partnerships.
- A college with national and international visibility.
- An inclusive, open and supportive environment.

Students who seek a challenging technical career in research and development, design, technical sales, manufacturing, management, teaching, or other professions requiring a methodical, creative solution to problems should seriously consider pursuing an education in engineering, engineering technology, or computer science. The internationally-recognized faculty of the College of Engineering and Computer Science, together with its strong curricula of undergraduate and graduate programs, provide an opportunity for ambitious, responsible men and women to become the leaders of our increasingly technological world. Because of the significance of science and technology to our everyday lives, today’s engineer, engineering technology, and computer scientist must be aware of the impact of his or her creations on society. In addition to the public health and welfare, aesthetics, economics, and energy-use implications, our graduates also consider environmental, sociological, and other humanistic costs. A degree from the College of Engineering and Computer Science is also recognized as a valuable asset to entering other professional pursuits such as the medical or law professions, architecture, education, the military professions, or even politics.

College Organization

The College of Engineering and Computer Science is organized into three major divisions: the Engineering and Computer Science Division, the Engineering Technology Division, and the Reserve Officer Training Corps (ROTC) Division. The Engineering and Computer Science Division is comprised of the School of Electrical Engineering and Computer Science (SSECS) and three engineering departments: the Civil and Environmental Engineering (CEE) Department, the Industrial Engineering and Management Systems (IEMS) Department, and the Mechanical, Materials and Aerospace Engineering (MMAE) Department. The School of Electrical Engineering and Computer Science is comprised of the Computer Science Department, and Information Technology, and Electrical and Computer Engineering. The Engineering Technology Division is comprised of the Engineering Technology (ENT) Department, and the ROTC Division is made up of the Aerospace Studies Department (Air Force ROTC) and the Military Science Department (Army ROTC).

All components of the Engineering and Computer Science Division, except Information Technology, also offer advanced studies leading to the Master’s degree and in the Doctor of Philosophy degree. Please see the Graduate catalog for further information on these graduate programs. The undergraduate engineering programs in Aerospace Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Environmental Engineering, Industrial Engineering, and Mechanical Engineering are fully accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place #1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700, Fax: (410) 625-2238. ABET is recognized by the U.S. Department of Education as the sole agency responsible for accreditation of educational programs leading to degrees in engineering, engineering technology, and related engineering areas. The Computer Science program is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place #1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700, Fax: (410) 625-2238.

The Engineering Technology Division and Department offers baccalaureate concentrations in Design, Operations and in Space Sciences, leading to the Bachelor of Science in Engineering Technology (BSET) degree, and concentrations in Electrical Systems, Computer Systems, and in Photonics, all leading to the Bachelor of Science in Electrical Engineering Technology (BSEE) degree. Both the BSET and BSEE, with the exception of the new Photonics concentration, degrees are accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for
The Honors Program in the College of Engineering and Computer Science

The engineering and computer science leaders of tomorrow must not only have impeccable technical credentials, but must also be able to provide strong leadership within the general community in which they live. With this in mind, the Honors Program in the College of Engineering and Computer Science offers outstanding undergraduate engineering, engineering technology, and computer science majors an enriched educational, technical, professional and cultural experience that significantly augments the basic curricula. Honors students comprise academically superior students who commit, upon acceptance into the program, to do broad as well as advanced work in a chosen area.

The objective of the Honors Program is to provide exceptional students with an opportunity to express their creativity and problem-solving abilities through challenging coursework and participation in research projects. In addition, the program exposes students to a wide variety of issues dealing with the role of engineers and computer scientists and the impact of the profession on society. Honors students also participate in several programmed activities, such as lectures by distinguished scholars, engineers, and public figures, visits to local and regional industries and to governmental and military research facilities.

There are two programs available to eligible CECS students: 1) the University Honors Program (see the section on the University Honors Program found in The Burnett Honors College section of this catalog) and 2) the Honors in the Major Program (HIM).

The Honors in the Major Program

The College of Engineering and Computer Science Honors in the Major program is designed for two types of students: 1) Highly qualified students who did not participate in the University Honors Program and would like to have the experience of an Honors curriculum, and 2) University Honors program students who desire to continue the Honors curriculum beyond what the University Honors Program offers. The centerpiece of the Honors in the Major program is the opportunity to undertake independent research as an undergraduate under the guidance of a faculty member in his/her major.

The Honors in the Major represents a total of six semester hours of course work. These credit hours are acceptable as technical electives by all engineering, engineering technology, and computer science majors. These six credit hours in lieu of Senior Design I and II. These credit hours are acceptable as technical electives. Honors in a chosen area.

In order to be admitted to the Honors in the Major program, the student must:

1. Have at least 60 semester hours, including at least 12 graded, upper division semester hours at UCF.
2. A minimum UCF GPA of at least 3.20 in all upper division courses.
3. A minimum GPA of 3.50 or more in the Engineering Option courses.
4. A recommendation by a sponsoring faculty member. Exceptions to the eligibility criteria may be made by the College Honors Committee in individual cases, upon recommendation by a sponsoring faculty member.

To successfully complete the HIM program and receive said designation, the student must successfully defend the thesis and graduate with a minimum 3.5 GPA in the option courses, and minimum 3.2 GPA at UCF. No exceptions to this policy will be made for graduation. Successful candidates will be awarded an Honors in Engineering/Engineering Technology/Computer Science mention on the diploma and transcript, representing satisfactory completion of the program. Moreover, each department will award a limited number of graduate scholarships (with tuition waivers) to those who apply for graduate school and have successfully completed this program.

Application for admission to the Honors in the Major Program must be made to the College of Engineering and Computer Science Honors Director, Niels Lobo (Computer Science), Harris Corp. Engineering Center, Room 252, or Mohamed Abdel-Aty. (Engineering) Engineering Building 2, room 301H. For more information about The Burnett Honors College programs, please visit their homepage at http://www.honors.ucf.edu.

The LEAD Scholars Program in the College of Engineering and Computer Science

Engineering, engineering technology, and computer science students may also participate in the LEAD (Leadership Enrichment and Academic Development) Scholars Program (see the section on the LEAD Scholar Program found elsewhere in this catalog).

Additional Information on UCF Baccalaureate Engineering, Engineering Technology, and Computer Science Programs

Information on each UCF engineering, engineering technology, computer science, and information technology program follows, and more current information can be found on the College home page at http://www.cecs.ucf.edu, and on the home pages of each department. For the home page associated with a particular program, see the listing for that department on the following pages of this catalog.

Department of Civil and Environmental Engineering

*Interim Chair:* A. Gonzalez; ENG2 211; 407-823-2841, Fax: 407-823-3315

*Faculty:* Abdel-Aty, Al-Deek, Catbas, Chang, Chopra, Cooper, Dietz, Hagen, Kuo, Nnadi, Oloufa, Radwan, Randall, Reinhart, Taylor, Wanielista, Wayson, Yeh, Zhao

The Civil and Environmental Engineering Department (CEE) offers baccalaureate degrees in both Civil Engineering (BSEng) and Environmental Engineering (BSEnvE).

The Civil Engineering Program

The Civil Engineering major is concerned primarily with fundamental civil engineering design and analysis in such areas as structures, geotechnical engineering, sanitary engineering, water resources, transportation engineering, and construction engineering. Civil Engineering students are required to take a minimum of two Project Design Courses, which synthesize various pre-requisite course offerings into a design project. Students in the Civil Engineering with Construction option are required to take two Project Design Courses (Construction Design Project and Geotechnical Engineering Design). These projects are usually “open-ended” and duplicate real world engineering problems. The students typically work in small design team groups. The pre-requisites needed for the various project courses vary.

Mission

The Civil Engineering Program Faculty strives to create a high quality learning experience for our students. The principal goals include:

1. Provide a broad engineering education to our graduates that will prepare them for both current and future professional challenges.
2. Promote a commitment to continued scholarship and service among our graduates.
3. Foster a spirit of innovation so that our graduates are positioned to take advantage of new technology in our profession.
4. Promote an environment that is inclusive and diverse.
5. To attain prominence in key areas of Civil Engineering graduate education and research.

Engineering and Technology (ABET), 111 Market Place, #1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700, FAX: (410) 625-2238. The Engineering Technology Department also offers a Bachelor of Science degree in Information Systems Technology (BS). This degree is designed for students who have completed 33 credit hours of lower level technical courses at a community college in the areas of networking, programming, information technology, computer science, computer engineering and technology or closely related disciplines.

The College houses the ROTC Division for those students desiring to pursue military training while earning their degree. The AFROTC program offers a minor in Aerospace Studies, and the AROTC program offers a minor in Military Science.

The Honors Program in the College of Engineering and Computer Science

The engineering and computer science leaders of tomorrow must not only have impeccable technical credentials, but must also be able to provide strong leadership within the general community in which they live. With this in mind, the Honors Program in the College of Engineering and Computer Science offers outstanding undergraduate engineering, engineering technology, and computer science majors an enriched educational, technical, professional and cultural experience that significantly augments the basic curricula. Honors students comprise academically superior students who commit, upon acceptance into the program, to do broad as well as advanced work in a chosen area.

The objective of the Honors Program is to provide exceptional students with an opportunity to express their creativity and problem-solving abilities through challenging coursework and participation in research projects. In addition, the program exposes students to a wide variety of issues dealing with the role of engineers and computer scientists and the impact of the profession on society. Honors students also participate in several programmed activities, such as lectures by distinguished scholars, engineers, and public figures, visits to local and regional industries and to governmental and military research facilities.

There are two programs available to eligible CECS students: 1) the University Honors Program (see the section on the University Honors Program found in The Burnett Honors College section of this catalog) and 2) the Honors in the Major Program (HIM).

The Honors in the Major Program

The College of Engineering and Computer Science Honors in the Major program is designed for two types of students: 1) Highly qualified students who did not participate in the University Honors Program and would like to have the experience of an Honors curriculum, and 2) University Honors program students who desire to continue the Honors curriculum beyond what the University Honors Program offers. The centerpiece of the Honors in the Major program is the opportunity to undertake independent research as an undergraduate under the guidance of a faculty member in his/her major. The Honors in the Major represents a total of six semester hours of work. These credit hours are acceptable as technical electives by all programs except for Electrical and Computer Engineering, Electrical and Computer Engineering students in the HIM program use the HIM credits in lieu of Senior Design I and II. These six credit hours consist of an Honors in the Major Seminar titled Research Methods in Engineering (EGN 4931H) (three semester hours), plus three semester hours of Undergraduate Honors Thesis (EGN 4970H).

The latter will result in an undergraduate thesis which will describe the research done by the student. The student will defend his/her thesis before a committee of faculty in the field as part of an oral examination covering the honors work. A sponsoring faculty member is required to supervise the undergraduate thesis.

In order to be admitted to the Honors in the Major program, the student must:

1. Have at least 60 semester hours, including at least 12 graded, upper division semester hours at UCF
2. A minimum UCF GPA of at least 3.20 in all upper division courses.
3. A minimum GPA of 3.50 or more in the Engineering Option courses.
4. A recommendation by a sponsoring faculty member. Exceptions to the eligibility criteria may be made by the College Honors Committee in individual cases, upon recommendation by a sponsoring faculty member.
COLLEGES

1. Provide a broad engineering education to our graduates that will include:
   - The Environmental Engineering Program Faculty strives to create a varying.
   - Projects are usually “open-ended” and duplicate real-world engineer-
   - Various pre-requisite course offerings into a design project. These
   - Of two Project Design Courses (out of four offered) which synthesize
   - The Environmental Engineering major is concerned primarily with the
   - The Environmental Engineering Program

2. Provide a professional engineering education that challenges our graduates to think critically and that will prepare them for a successful professional career.
3. Ensure that all our undergraduate students gain experience in applied engineering design within a broad curriculum.
4. Form and maintain partnerships with industry, government agencies, and professional organizations.
5. Develop awareness of the changing needs of society and local, state, national, and global environment and infrastructure.
6. Provide our graduates with a strong knowledge base to enhance their professional skills and develop their abilities to perform credible research.

The Environmental Engineering Program

The Environmental Engineering major is concerned primarily with the interactions with humans and their environment and the planning, design, and control of systems for environmental quality management for water, land, and air environments.

Environmental Engineering students are required to take a minimum of two Project Design Courses (out of four offered) which synthesize various pre-requisite course offerings into a design project. These projects are usually “open-ended” and duplicate real-world engineering problems. The students typically work in small design team groups. The pre-requisites needed for the various project courses vary.

Mission

The Environmental Engineering Program Faculty strives to create a high-quality learning experience for our students. The principal goals include:
1. Provide a broad engineering education to our graduates that will prepare them for both current and future professional challenges.
2. Promote a commitment to continued scholarship and service among our graduates.
3. Foster a spirit of innovation so that our graduates are positioned to take advantage of new technology in our profession.
4. Promote an environment that is inclusive and diverse.
5. To attain prominence in key areas of Environmental Engineering undergraduate education and research.

Program Objectives

Within the first several years following graduation, graduates should:
- Be successfully employed or employable in civil engineering practice in areas such as structural, geotechnical, transportation, construction, water resources, or related fields and/or be continuing their studies at the graduate level.
- Show a commitment to ethical practice and professional development by extending their knowledge through continuing education and self-directed life-long learning, professional licensure, and service to the profession and society.

Educational Objectives

1. Produce graduates who have technical knowledge that is fundamental to the principles of critical areas of Civil Engineering such as structures, geo-technical, water resources, transportation, construction, surveying, and environmental.
2. Provide a professional engineering education that challenges our graduates to think critically and that will prepare them for a successful professional career.
3. Ensure that all our undergraduate students gain experience in applied engineering design within a broad curriculum.
4. Form and maintain partnerships with industry, government agencies, and professional organizations.
5. Develop awareness of the changing needs of society and local, state, national, and global environment and infrastructure.
6. Provide our graduates with a strong knowledge base to enhance their professional skills and develop their abilities to perform credible research.

The mission statement and objectives for the Civil Engineering and Environmental Engineering programs are electronically posted and continuously updated. More information on the Civil and Environmental Engineering programs can be found on the CEE Department homepage at http://www.cee.ucf.edu.

Department Policy for Double Major in Civil and Environmental Engineering

The faculty of the Civil and Environmental Engineering Department believe that a double major from our department should reflect a significant achievement of students, and therefore a significant increase in knowledge and formal coursework above the requirements for a single degree. Any undergraduate in Civil or Environmental Engineering desiring to obtain a double major disciplines shall meet the following requirements:
- The student shall meet all individual requirements for each degree.
- The coursework must include two different capstone design courses, one from each program.
- The student shall notify the Chair of his or her intent to pursue a double major by the start of the final academic year (3 semesters) of coursework, and shall have a “program of study” prepared and approved by the Chair.
- Completion of requirements for both majors must be in the same semester.
- The same catalog year must be used for both majors.

Additional Notes:
- All students, by meeting the requirements for each degree, will be able to represent themselves as either a Civil Engineer or an Environmental Engineer or both.
- The double major program for a student must be approved by the Chair in the final year. This eliminates last-minute confusion by the student and allows the Chair time to review the technical elective, and the specific design courses being taken by each student.
- The 24 hours represents two additional semesters of full-time enrollment, and represents the minimum requirements for a second degree.
- The 24 hours of courses would include all the required courses of the other discipline (15 hours) plus two additional capstone design courses plus one technical elective (as approved by the Chair).
- The double major will be so indicated on one diploma. If a student desires two separate diplomas, a B.S.C.E. and a B.S.Env.E, this is permitted for students who have a minimum of 150 credit hours.

School of Electrical Engineering and Computer Science

Director: Dr. Issa Batarseh, Harris Corp Engineering Center; 437D, 407-823-2787


The Computer Science Program

The Computer Science program offers courses and programs leading to Bachelor of Science, Master of Science (see Graduate Catalog), and Doctor of Philosophy (see Graduate Catalog) degrees in Computer Science. In addition, the program offers minors in Computer Science, Applied Computer Science, and Computer Information Technology.
The program strives to meet the requirements for professional careers and research in software development and computing systems technology by producing graduates with a broad base of formal course work. Students may use required elective credit to concentrate their degree in one or many areas, including computational biotechnology, computational complexity, computational geometry, computer architecture, computer graphics, computer networks, computer simulation, computer vision, databases, design and analysis of algorithms, distributed computing, digital media, evol- utionary computing, graph theory, machine learning, natural language processing and knowledge-based systems, neural networks, operating systems, parallel processing, software engineering and VLSI design tools and hardware algorithms.

Research facilities are organized around laboratories directed by faculty members. Facilities in these laboratories change rapidly and are generally funded through external research grants, supplemented by grant matching and startup funds from SCS. To learn about the current status of research facilities and projects, visit faculty web pages. These may be found by following links from the computer science home page at http://www.cs.ucf.edu/.

Mission

The mission of the Computer Science program is to educate majors in the principles and practices of computer science, preparing them for graduate school, for careers in software development and computing technology, and for a lifetime of learning.

Objectives

1. CS majors should be practiced in the design and analysis of algorithms using mathematical and statistical methods and techniques.
2. CS majors should be proficient in the use of modern and widely-used programming languages.
3. CS majors should be practiced in abstract reasoning and modeling of complex real-world systems.
4. CS majors should be practiced in oral and written communication skills, particularly as these skills apply to the dissemination of technical information on subjects dealing with computing technology and applications.
5. CS majors should be practiced in the use of state-of-art software development methodologies, tools and language.
6. CS majors should be highly competitive in securing entry-level positions in software and computer system development industries.
7. The top fifteen percent (15%) of all graduating CS majors shall be qualified and prepared for pursuing graduate studies in the top tier graduate schools in Computer Science.

The Information Technology Program

The Information Technology program offers courses leading to the Bachelor of Science degree in Information Technology. Information Technology encompasses computer hardware, software, peripheral devices and their use in communication networks and information systems. IT-related disciplines include database engineering, network engineering, performance planning, system security, digital media design, and web server design. The program provides students a strong conceptual core, which will prepare them to be lifelong learners, along with significant hands-on experience. The inclusion of advanced courses in technical writing, a course in ethics, and five upper division courses in an area outside information technology will prepare these students to deal with the subject areas and communicate in the parlance of the industries in which they choose to work. Basically, students will have an interdisciplinary core in which the principles and practices of the three disciplines of the School are presented in a cohesive, connected manner. They will then create their own multidisciplinary component by taking upper division courses that are typically outside the College of Engineering and Computer Science.

Mission

The mission of the Bachelor of Science in Information Technology Degree Program is to educate students in the science and practices of information technology, preparing them for a lifetime of learning and for careers in information technology as well as in a wide variety of disciplines that integrate information technology into their respective fields of activity.

Objectives

1. Graduates will learn the principles and practices of information technology, along with the mathematical and engineering foundation of this discipline.
2. Graduates will obtain the skills to solve complex problems via the development of models, and the design, implementation, and analysis of computer realizations of these models.
3. Graduates will receive an education that enables them to design, implement, and administer complex distributed information systems, including the archival databases and the communication infrastructures associated with such systems.
4. Graduates have the opportunity to obtain a strong background in at least one discipline, outside information technology, in which information technology plays a critical role.
5. Graduates will be prepared for successful careers in information technology. This preparation will include the abilities to work in teams, to communicate effectively, and to experience a lifetime of learning.

Electrical and Computer Engineering Programs

The Electrical and Computer Engineering programs offer baccalaureate degrees in both Electrical Engineering (BSEE) and Computer Engineering (BSCpE). Graduate degrees leading to the Master of Science in Engineering (M.S.E.) and Doctor of Philosophy (Ph.D.) are also offered.

The curriculum provides an integrated experience including humanities and social sciences, mathematics and basic sciences, engineering core, computing, and design experience. The laboratory experiences appropriately combine theory and practice in the Electrical and Computer Engineering programs through a logical progression of courses. Design experiences start with the first circuits course, EEL 3004, and progress to the senior design capstone courses. This senior design experience is a two-semester sequence totaling six credit hours. Aspects of engineering economics, administration, oral presentation, professional issues such as ethics, safety and environmental impact are also covered in the design courses. The design projects required in the design course sequence address real-life problems, and the students work in a team setting. Also, several projects are developed jointly with our industrial partners.

The Computer Engineering Program

The Computer Engineering program contains a minimum of 24 credit hours of design experience, which includes courses listed as Computer Systems Design I and II (EEL 4787C and EEL 4788C), engineering Applications of Computer Methods (EEL 4832), Engineering Applications of Computer Methods (EEL 4832), Engineering Data Structures (EEL 4851C), and Introduction to Digital Circuits and Systems (EEL 3342C). Technical electives can give additional design experiences in specialty areas such as computer architecture, intelligent systems, networking, software engineering, and simulation systems.

Mission

The mission of the Bachelor of Science in Computer Engineering Degree Program is to prepare students to become highly skilled in the principles and practices of computer engineering and develop computer engineers that meet market needs.

Objectives

1. Graduates will acquire sufficient academic competence in fundamental math, science, and engineering principles for employment in computer engineering.
2. Graduates will acquire sufficient academic competence for advanced graduate studies.
3. Graduates will demonstrate overall competence in the computer engineering discipline, including the ability to design systems and processes, conduct and analyze experiments, and learn and utilize computer skills.
4. Graduates will demonstrate overall competence in communication skills, computer skills, and problem solving skills, and the ability to work in interdisciplinary teams.
5. Students are recognized by their employers for their knowledge and skills in solving real world problems, and for their professionalism.

The Electrical Engineering Program

The Electrical Engineering program contains a minimum of 18 credit hours of design experience. This is achieved through such courses as Linear Control Systems (EEL 3657), Electronics I and II (EEL 3307C and EEL 4309C), Digital Signal Processing (EEL 4750), Signal Analysis and Communication (EEL 3552C), Computer Systems Design I (EEL 4767C), Networks and Systems (EEL
3123C) and Digital Circuits and Systems (EEL 3342C). Technical electives can give additional design experience leading to work in communications, controls, image and signal processing, microelectronics and solid state devices, microwaves and electromagnetics, optical engineering, and power/power electronics.

Mission
The mission of the Bachelor of Science in Electrical Engineering Degree Program is to educate students to become skilled in the principles and practices of electrical engineering and develop electrical engineers that meet market needs.

Objectives
1. Graduates will acquire sufficient academic competence in fundamental math, science, and engineering principles for employment in electrical engineering.
2. Graduates will acquire sufficient academic competence for advanced graduate studies.
3. Graduates will demonstrate overall competence in the electrical engineering discipline, including the ability to design systems and process, conduct, and analyze experiments, and learn and utilize computer skills.
4. Graduates will demonstrate overall competence in communication skills, computer skills, and problem solving skills, and the ability to work in interdisciplinary teams.
5. Students are recognized by their employers for their knowledge and skills in solving real world problems, and for their professionalism.

The mission statement and objectives for the Computer Engineering and Electrical Engineering programs are electronically posted and continuously updated. More information on the Computer and Electrical Engineering programs can be found on the home page at http://www.ece.ucf.edu/.

School of Electrical Engineering and Computer Science Policies and Procedures
The School’s web site (http://www.eecs.ucf.edu/) is a central point from which visitors may view current policies and procedures of our programs. In particular, links from this page provide up-to-date answers to frequently asked questions (FAQ’s) concerning academic advising, staff professional societies, undergraduate research opportunities, and means to effectively communicate concerns (comments, suggestions, complaints). We ask that you visit this site and follow its guidelines before you send e-mail and letters, or make phone calls to faculty members and administrators.

Department of Industrial Engineering and Management Systems
Chair: Lesia Crompton-Young; ENGR 312; 407-823-2204, Fax 407-823-3413

Industrial Engineers work to continuously improve the design of systems, processes, or products. They design systems that translate a specific product design into a physical reality in the most productive manner and with the highest possible quality. In doing so, the industrial engineer deals with decisions regarding the utilization of people, materials, machines, and automation (including robotics). Industrial engineers are also skilled in Engineering Economic Analysis and Information Management since they are generally considered to be the natural interface between the technical specialist and management.

Industrial Engineers are generally sought in industry, service, and government organizations. In the industrial sector, the industrial engineer is concerned with improving productivity and quality of the manufacturing, distribution, and management system of organizations. In the service sector, the industrial engineer is concerned with determining the most productive manner in which to deliver high-quality service to the customer. In government organizations the industrial engineer is active in assuring that tax payers receive maximum service for their tax dollars.

The Industrial Engineering approach is characterized by a systematic evaluation of alternatives using quantitative analysis, and computer simulations. As such, quantification and measurement play a key role in the day to day activities of the industrial engineer.

Engineering design experiences are incorporated into many of the required industrial engineering core courses. For instance, students learn how to apply the principles of engineering design to production systems and cost estimation in EIN 3354, to work methods and process flows in EIN 3314, and to facilities design and plant layout in EIN 4364. The design experience concludes with a real-world system design in the two-semester capstone design sequence, EIN 4116 and EIN 4891.

Mission
To produce industrial engineering professionals and leaders who, working alongside their coworkers, can design and improve operations in industry, business, and government, making them more productive, more responsive, and producing goods and services of higher value to the customer for the global economy of the 21st century.

Objectives
1. BSIE graduates will demonstrate knowledge of math, science, and engineering fundamentals. Specifically, the student will have the ability to:
   - Demonstrate general design principles.
   - Use fundamental engineering techniques, skills, and tools for engineering practice.
   - Analyze and interpret data to produce meaningful conclusions and recommendations.
2. BSIE graduates will demonstrate competence in the professional practice of industrial engineering, effectively using both technical and qualitative skills. Specifically, the student will have the ability to:
   - Design systems, components, and processes to meet desired needs.
   - Identify, formulate, and solve industrial engineering problems.
   - Use industrial engineering techniques, skills, and tools for engineering practice.
   - Be a productive member of multi-disciplinary teams.
   - Communicate effectively in both written and spoken presentations.
   - Incorporate contemporary issues into the practice of industrial engineering, including global communication.
   - Have the knowledge to become a Professional Engineer (PE) in the IE discipline.
3. BSIE graduates will understand the leadership responsibilities of a practicing engineer. Specifically, the graduate will understand the need to:
   - Make decisions in light of professional and ethical responsibilities.
   - Understand the impact of engineering solutions in a global and societal context.
   - Understand contemporary issues in the practice of industrial engineering.
   - Engage in lifelong learning.
4. BSIE graduates seeking professional employment or admission to graduate education programs will be successful in doing so within six months of graduation.
5. IEMS students will receive relevant curriculum content in a learning environment that facilitates learning and retention.


Department of Mechanical, Materials, and Aerospace Engineering
Chair: Ranganathan Kumar; ENGR 307; 407-823-2416, Fax 407-823-0200

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 aerody-
namics, propulsion, aerospace structures and materials, flight dynamics, and control and performance.

The Mechanical Engineering program is designed to provide a broadly-based foundation in thermo-fluids, mechanical systems and materials, including topics such as solid mechanics, machine design, vibrations, CAD/CAM/FEM, feedback control and mechatronics, fluid mechanics, high temperature and structure and properties of materials.

Both programs seek to convey an understanding of the fundamental principles of science and engineering, to stimulate curiosity and creativity, to provide hands-on experience in laboratories, and to prepare students to design systems which solve current and relevant societal problems. The design experience begins in the freshman engineering course and grows through the curricula with increased emphasis on student creativity, open-ended problems, materials selection, design methodology, feasibility considerations, alternative solutions, and concurrent design, and culminates in the senior capstone design courses. The use of computers and written and oral communication are part of the design experiences throughout the programs.

**Mission: Aerospace Engineering**

In support of the University and College missions, the Aerospace Engineering program at UCF is committed to provide the highest quality aerospace engineering professionals and leaders. Through cooperative efforts with regional aerospace industry and the Florida Space Institute, our graduates will be well prepared for their role as aerospace engineers in society and will have an awareness of ethical, environmental, economic, safety, and quality issues. They will be educated to be life-long learners, pursuing their personal and professional development. Through these characteristics our graduates will be able to rise to positions of prominence in the technical society of tomorrow.

**Aerospace Engineering Program Educational Objectives and Outcomes**

**Career Preparation:** The program prepares graduates for employment as engineers in aerospace or allied disciplines, and for graduate study in engineering or business, or allied areas. Students will emphasize aeronautical systems or space systems, and will have a command of corresponding engineering principles. Among the obvious career opportunities are the design and development of aircraft, missiles, and spacecraft systems. Aerospace technologies are also important and applicable to power applications such as turbomachinery. Also, many environmental problems associated with wind effects on buildings, structures, etc., are appropriate to the methods and technology of aerospace engineering.

**Skills:** To prepare graduates with skills enabling them to be productive in their chosen career. These tools include understanding contemporary topics in aerospace technology, command of modern engineering tools, design experience, and professional experience appropriate to their post-graduation goal.

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

**Life-long Learning:** To produce graduates who believe that their undergraduate aerospace engineering education was a wise investment and who desire to continue to develop their knowledge and skills throughout their careers.

**Mission: Mechanical Engineering**

In support of the University and College missions, the Mechanical Engineering program at UCF is committed to provide the highest quality engineering professionals and leaders. Through cooperative efforts with regional industry, our graduates will be well prepared for their role as mechanical engineers in society and will have an awareness of ethical, environmental, economic, safety, and quality issues. They will be educated to be life-long learners, pursuing their personal and professional development. Through these characteristics our graduates will be able to rise to positions of prominence in the technical society of tomorrow.

**Engineering Program Educational Outcomes and Objectives**

**Career Preparation:** The program prepares graduates for employment as engineers in mechanical or allied disciplines, and for graduate study in engineering, business, or allied areas. Students will emphasize mechanical systems, energy systems, or materials, and will have a command of corresponding engineering principles. Among the career opportunities are power generation, mobility engineering, manufacturing, nuclear applications, from zipper to space shuttle.

**Skills:** To prepare graduates with skills enabling them to be productive in their chosen career. These tools include understanding contemporary topics in mechanical technologies, command of modern engineering tools, design experience, and professional experience appropriate to their post-graduation goal.

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

**Life-long Learning:** To produce graduates who believe that their undergraduate mechanical engineering education was a wise investment and who desire to continue to develop their knowledge and skills throughout their careers.
Bachelor of Science in Engineering Technology (BSET)
The BSET curriculum consists of a carefully integrated program that includes professional studies, general education, and applied mathematics and sciences. Through the selection of the upper level technical concentration students can build and tailor their program, based on previous knowledge to assist them to launch a career that best meets their needs and aspirations. The Design concentration provides advanced course work in preparation for employment at the baccalaureate level in the fields of manufacturing, testing and fabrication of mechanical parts, and the building and construction industries. Graduates may become involved in many diverse areas including product development, manufacturing, quality assurance and logistics, sales, field engineering, technical writing and safety. The Space Science Technology concentration prepares students for a career in launch and space operations, payload management, and other requirements to work in the space industry. Projects in solving real-world problems, are required of all students in the BSET program. In addition to the engineering technology core, all concentrations in the BSET program have a common lower division core as well as a common upper division core.

Bachelor of Science in Information Systems Technology (BS)
The Engineering Technology Department also offers the Bachelor of Science degree in Information Systems Technology (BS), designed to accept Associate of Science (AS) degree graduates from community college programs in Computer Programming Technology, Digital Communications, and Networking. The IST curriculum provides the AS graduate with additional course work in networking and computer systems. It also provides skills and knowledge related to project management in Information Technology. A characteristic of this curriculum is that it contains less mathematics and natural science than do the BSET and BSEET curricula.

Reserve Officer Training Corps
Air Force ROTC (Aerospace Studies)
Chair: Col. William G. Palmby; Trailer 501, Room 103; 407-823-1247, Fax 407-823-2265
Faculty/Staff: Captain Williams, Captain Ellingson, Captain Little, TSgt Fields, SSgt Crawford, and Mrs. Fioramanti, Office Manager.

The Department of Aerospace Studies provides pre-commissioning education for qualified students who desire to serve as commissioned officers in the active duty Air Force. The department offers four-year, three-year, and two-year Air Force ROTC programs. The four/three-year program provides on-campus study during the freshman through senior years. The two-year program allows community college transfer students and other students with two academic years remaining in either undergraduate or graduate status to earn an Air Force commission while completing their studies. All programs offer scholarship opportunities to selected students. Students are invited to write or visit the Department of Aerospace Studies to obtain additional information. The Air Force retains sole discretion whether or not any applicant is qualified for pre-commissioning education through the Air Force ROTC. More information on the Aerospace Studies program can also be found on the UCF AFROTC home page at http://airforce.ucf.edu and the Air Force ROTC home page at http://www.afrotc.com/.

Curriculum
Students enrolled in the Air Force ROTC program may major in any academic discipline and earn a minor in Aerospace Studies. A major is not offered by this department. AFROTC courses are listed under the prefix AFR. The curriculum is divided into two phases:

1. General Military Course (GMC)
The General Military Course is designed to give students their first exposure to the Reserve Officer Training Corps program during their freshman and sophomore years. The courses deal with the mission, organization, and structure of the US Air Force, and the development of air power into a prime element of American national security.

2. Professional Officer Course (POC)
The Professional Officer Course is designed to develop and hone managerial and officer skills during a student's junior and senior years. All students who seek a commission through the Air Force ROTC must complete the POC curriculum. The curriculum involves the study of concepts of leadership and management in the Air Force and an analysis of the formulation and implementation of American defense policy.

Leadership Laboratory
Leadership Laboratory is a required lab that must be taken in conjunction with the academic class. Leadership Laboratory is only open to students who are members of the Reserve Officer Training Corps or are eligible to pursue a commission as determined by the Professor of Aerospace Studies.

Requirements for entry into the Professional Officer Course
- Be at least 17 years of age at the time of acceptance
- Be able to complete the Professional Officer Course and complete all degree requirements prior to reaching age 29 if entering Flight Training, or before age 30 (can be waived to age 35) if entering a non-flying Air Force specialty
- Pass the Air Force Officer Qualifying Test
- Pass an Air Force medical examination
- Pass the Air Force Physical Fitness Test each semester
- Selection by the Professor of Aerospace Studies
- Successful completion of a summer Field Training course (either four or six weeks)
- Enlistment in the Air Force Reserve certifying agreement to complete the POC and accept an Air Force Commission. This enlistment is terminated upon receipt of a commission

Monetary Allowance
All contracted students enrolled in the Professional Officer Course receive a tax-free monetary allowance of $350 or $400 per month based on their academic classification.

Air Force ROTC Scholarship Program
Scholarships are phased at four, three, and two year opportunities. This system provides opportunities to those students enrolled in certain academic majors. Depending on state residency and credit hours, these scholarships may provide for full tuition and fees, and an allowance for textbooks. For additional information on Air Force ROTC call 407-823-1247 or visit our web site at http://airforce.ucf.edu or e-mail us at AFROTC@mail.ucf.edu. This information is subject to change.

Summer Training
All students must attend a summer Field Training course conducted at Maxwell Air Force Base in Montgomery, AL, Tyndall Air Force Base in Panama City, FL or Ellsworth AFB in Rapid City, SD. This course includes junior officer training, officer career orientation, and physical conditioning. Students enrolled in the four-year AFROTC program will attend a four-week summer course, normally upon completion of the General Military Course. A six-week summer course, which includes a modified version of the General Military Course, is required for students entering the two-year AFROTC program. These students must complete their summer training prior to their formal enrollment in the Professional Officer Course curriculum. These students need to contact the department early in the Fall prior to the Summer Field Training.

Officer Commissioning
Students who complete the Professional Officer Course are appointed Second Lieutenants in the United States Air Force. After completing the training program and entering active duty they will serve a minimum active duty tour which varies in length depending on their particular career area (typically four years). Such obligations are explained in detail during the one-on-one counseling sessions conducted with each candidate by detachment officers.

Army ROTC (Military Science)
Chair: LTC Allison R. Reinwald; Trailer 501, Room 110
Faculty/Staff: LTC Christensen, MAJ Fallon, CPT Brown, CPT
B. Requisites for Admission to the Advanced Course:
- The Advanced Military Science courses (MSL 3101, 3202, 4301, 2201, 2202) are required for students who desire a commission as a Second Lieutenant are contracted 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 per month. Additionally, all lodging, meals and transportation are furnished. Uniforms will be provided at no expense.

2. Advanced Military Science
- The Advanced Military Science courses (MSL 3101, 3202, 4301, 4302), open to both men and women, are designed for four-year participants and are normally offered during the freshman and sophomore years. These courses specialize in small unit tactics, leadership training, military justice system, staff procedures, decision making and leadership. Students who desire a commission as a Second Lieutenant are contracted and paid a tax-free subsistence of $350.00 per month up to 10 months during their Junior year and $400.00 per month during the Senior school year. Each student is required to take courses that meet the Army’s Professional Military Education Requirements. Students must meet pre-requisite requirements and must obtain permission from the department chair prior to participating in the Advanced program course. They must also successfully complete a 32-day Leadership Development and Assessment Course at Fort Lewis, WA, normally between their Junior and Senior years.

B. Requisites for Admission to the Advanced Course:
- Successful completion of Basic Course, Basic Camp (LTC), JROTC, prior military service or permission of the Department Chair
- Must be at least 17 years of age at the time of entry, but not more than 30 years of age at the time of commissioning (30-year age regulation may be waived for veterans up to age 34)

C. 3. Monetary Allowance
- All contracted and scholarship students enrolled in the Advanced Military Science Course receive a tax-free monetary allowance of $450.00 or $500.00 per month during the school year.

4. Scholarships
- Four, three and two-year scholarships are available for all students who qualify on a competitive basis. These scholarships provide full tuition, books and fees for Fall and Spring semesters. In addition, all contracted scholarship students also receive the $300.00, $350.00, or $450.00, or $500.00 monetary allowance per month during the school year. Contact the Enrollment Officer for additional information at 407-823-5383.

5. Placement Credit
- Placement credit is offered to all students with prior service. Prior service experience waives the required Basic Courses. Prior service is extended to include Active duty, Reserve Forces and National Guard. Although prior service does waive the Basic Courses, if a prior service student desires, he/she may elect to enroll in the Basic Courses.

6. Daytona Beach Campus Students
- These students should contact the Professor of Military Science at Embry-Riddle Aeronautical University, Daytona Beach, Florida, (904) 239-6469. Students will participate in a Field Training Exercise (FTX) and will commission, if qualified, with Embry-Riddle.

Summer Training Courses
- 1. Basic Course Summer Training (Leader Training Course)
- A student can earn placement credit for the Basic Course classes and allowed entry into the Advanced Course by attending a six-week course at Fort Knox, Kentucky, thereby allowing completion of all requirements for commissioning within two years. Students attending the summer course receive approximately $700.00 pay. Additionally, all lodging, meals and transportation are furnished. Uniforms will be provided at no expense.

2. Specialized Summer Training Courses
- Qualified students can be selected to attend specialized military training occurring the summer months. These areas of training include: a) Airborne Training; b) Air Assault Training; c) Northern Warfare Training; d) Cadet Troop Leadership Training; e) Master Fitness Training; and f) Mountain Training.

3. Leadership Development and Assessment Course (LDAC) All students must attend and successfully pass a five week camp conducted at Fort Lewis Washington prior to receiving a commission as an Army Officer. This camp evaluates a student’s leadership performance and potential. Students normally attend LDAC after their junior year and receive approximately $800 pay for the training.
College of Health and Public Affairs

Interim Dean: Joyce E. Dorner; HPA I 365; 407-823-0171
Associate Dean: Stephen Holmes; Graduate Studies and Technology; HPA I 365; 407-823-0171
Associate Dean, Undergraduate Studies: Pamela Kirby; HPA I 365; 407-823-0171
Assistant Dean, Student/Personnel Affairs: Melvin Rogers; HPA I 365; 407-823-0171

Website: http://www.cohpa.ucf.edu

The College of Health and Public Affairs houses six departments and schools: the School of Nursing, the School of Social Work, and the departments of Communication Sciences and Disorders, Criminal Justice and Legal Studies, Health Professions, and Public Administration.

The College fosters excellence in undergraduate and graduate education, research and community services in health, social and justice services. In addition to a PhD program in Public Affairs and in Nursing, the College houses both undergraduate and graduate interdisciplinary programs that contribute to a solid educational foundation in public affairs.

General Requirements for the Bachelor’s Degree

Some Schools, Departments or Programs in the College are upper division, limited access programs. Acceptance by or registration at the University does not constitute admission to the following: Schools of Nursing and Social Work, and the Programs in Athletic Training, Cardiopulmonary Sciences, Health Information Management, and Radiologic Sciences.

Application must be made to the appropriate program in health sciences. For Social Work and Nursing, contact the appropriate School. Additional information regarding prerequisites and minimum grade point averages may be obtained from the desired School, Program, Department, or College website.

The following Departments and Programs do not have restrictions on admissions: Communication Sciences and Disorders, Criminal Justice/Legal Studies, Public Administration, Health Sciences - Pre-Clinical Allied Health Track, and Health Services Administration.

Academic Advisement

Office of Undergraduate Student Services

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

The College of Health and Public Affairs Office of Undergraduate Student Services assists undergraduate students in understanding matters relating to college and university requirements and procedures as well as coordinating orientation, registration and graduation certification. Students interested in pursuing limited access programs are encouraged to meet with advisors in the college to stay on track by taking the appropriate prerequisite requirements. Advisors are available through the Outreach Program for students on probation or for those who are having academic difficulty. Questions concerning university and college academic policies should be directed through this office. Faculty advisors are assigned to students upon admission to their degree program in their academic department.

Programs and Degrees

<table>
<thead>
<tr>
<th>Major</th>
<th>Degree</th>
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<tbody>
<tr>
<td>Cardiopulmonary Sciences</td>
<td>BS</td>
</tr>
<tr>
<td>Communication Sciences and Disorders</td>
<td>BA, BS, MA</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>BA, BS, MS</td>
</tr>
<tr>
<td>Health Information Management</td>
<td>BS</td>
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<tr>
<td>Health Sciences - Athletic Training</td>
<td>BS</td>
</tr>
<tr>
<td>Health Sciences - Pre-Clinical Allied Health Track</td>
<td>BS</td>
</tr>
<tr>
<td>Health Services Administration</td>
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<tr>
<td>Legal Studies</td>
<td>BA, BS</td>
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<tr>
<td>Nursing</td>
<td>BSN, MSN, PhD</td>
</tr>
<tr>
<td>Public Administration</td>
<td>BA, BS, MPA, MNM</td>
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<tr>
<td>Public Affairs</td>
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<tr>
<td>Physical Therapy</td>
<td>MS</td>
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<tr>
<td>Radiologic Sciences</td>
<td>BS</td>
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<tr>
<td>Social Work</td>
<td>BSW, MSW</td>
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THE COLLEGE OF HEALTH AND PUBLIC AFFAIRS
The Department of Communication Sciences and Disorders

http://www.cohpa.ucf.edu/comdis

Chair: R. J. Lieberman; HPA2 101; 407-823-4798
Undergraduate Coordinator: Jamie Schwartz
Clinic Director: C. Harvey; Research Pavilion Suite 155; 407-249-4770

Faculty: Barrett, Brice, Carson, DiNapoli, Dreilinger, Harvey, Hostetler, Kent-Walsh, Lieberman, Miller, Nye, Parsons, Ratusnik, Riess, Rivers, Ross-Lugo, Ruddy, Ryalls, Schwartz, Secord, Utt, Vanvycykeghem, White

The discipline of communication sciences and disorders involves the prevention, evaluation, management, and study of human communication and its disorders. The undergraduate program in the Department of Communication Sciences and Disorders is pre-professional in nature and reflects the scientific foundations of the discipline. The three primary goals of the undergraduate program are: 1) to provide students with the necessary preparation for graduate study in speech-language pathology, audiology, or related fields such as special education, social work, and health services administration; 2) to seek careers in health and human services; and 3) to obtain licensure and employment as a speech-language pathology or audiology assistant.

The graduate program prepares speech-language pathologists for work with children and adults experiencing a variety of communication disorders in schools, hospitals, rehabilitation centers, community speech, language and hearing centers, and physician’s offices. The graduate program has been accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association since 1986. Students should plan their major or minor in consultation with a departmental advisor to meet their individual interests and career objectives.

In addition to course work in Communicative Disorders, the Department offers an array of courses in American Sign Language and related topics.

Degrees: Communication Sciences and Disorders (BA, BS, MA)
Tracks: None
Minors: Communication Sciences and Disorders, Deaf Studies, American Sign Language
Certificates: American Sign Language, Language Development and Disorders

The Department of Criminal Justice and Legal Studies

Chair: Dr. Bernard McCarthy; HPA 311; 407-823-2803

The Department of Criminal Justice and Legal Studies includes two undergraduate degree programs: Legal Studies and Criminal Justice. The department supports Lambda Alpha Epsilon, the professional Criminal Justice fraternity, and Alpha Phi Sigma, the Criminal Justice Honor society and Phi Alpha Delta the Legal Studies professional society.

Criminal Justice Program

Criminal Justice is a problem-based field of study which focuses on the nature of crime and crime control agencies in a democratic society. The curriculum reflects the dynamic nature of the field and prepares students for challenging careers in public service.

Legal Studies Program

The Legal Studies Program provides students with a broad understanding of basic principles of law and the role and function of the legal system. The legal studies program, in addition to preparing students for law-related careers, provides a foundation for law school or other graduate education. All of the full time Legal Studies faculty are attorneys who are graduates of ABA approved law schools and are available for law school advising. The Department also supports Phi Alpha Delta, the professional law school fraternity. Satisfactory completion of program requirements leads to the degree of Bachelor of Arts or Bachelor of Science with a major in Legal Studies.

Degrees: Criminal Justice (BA, BS, MS), Legal Studies (BA, BS)
Tracks: None
Minors: Criminal Justice, Legal Studies

The Department of Health Professions

Chair: Diane M. Jacobs; HPA2 210; 407-823-2359

The Department of Health Professions offers baccalaureate programs which prepare students for professions in the fields of Cardiopulmonary Sciences (Respiratory Care), Health Information Management, Athletic Training, Health Services Administration, and Radiologic Sciences. The Department also offers a degree in Health Sciences - Pre-Clinical Allied Health Track for those planning to go on to a graduate clinical professional program.

The mission of the Department is to provide quality undergraduate and graduate academic, administrative, and clinical instruction with an accent on educating future leaders of the health care system. The Department seeks first to strengthen existing programs, as well as to identify and develop new programs that fulfill a documented need for health care resources and technology. Another goal is to foster the development of knowledge through research, publications, and scientific presentations. Finally, the Department seeks to provide continuing education for the health care community and consumer health education.

The programs in Cardiopulmonary Sciences, Health Information Management, and Radiologic Sciences require a minimum overall GPA of 2.5 for consideration for admission and the Athletic Training program requires a minimum overall GPA of 2.75. In addition, for admission a minimum grade of "C" (2.0) is required for prerequisite courses and required courses within the program. These programs are all accredited by their national professional associations and graduates are prepared to take the appropriate examination for certification.

Program in Cardiopulmonary Sciences

Director: Jeff Ludy; HPA2 210; 407-823-2214

The major in Cardiopulmonary Sciences (also known as respiratory care) leads to the Bachelor of Science Degree. In the professional curriculum, students study respiratory therapy skills, pharmacology, life support techniques, disease and patient assessment, and patient management. Upon completion of the undergraduate program, the baccalaureate prepared individual will possess basic patient care and advanced practice patient care skills and should be prepared to assume a future leadership role within the profession. Graduates will also be prepared to take the entry-level and advanced practice national examinations. These examinations will first lead to licensing by the State of Florida (CRT examination), and then to the advanced practice credential, Registered Respiratory Therapist (RRT examination).

The Cardiopulmonary Sciences program is accredited by the Committee on Accreditation for Respiratory Care in conjunction with CAAHEP of the American Medical Association. The cardiopulmonary sciences program is a limited access program and requires a separate application to the program submitted by February 1st of the year in which admission to the program is sought.

Degrees: Cardiopulmonary Sciences (BS)
Tracks: None
Minors: None

Program in Health Information Management

Director: Tom Falen; HPA2 210; 407-823-2369

Health Information Managers are professional members of the modern health care team responsible for: 1) the acquisition and supervision of complete medical records on each patient, 2) the design and
management of health information systems which collect, process, store, retrieve, and release health information and statistics, 3) assistance to administration, other health professionals, and medical staff in developing quality assurance programs by abstraction of medical data, preparation of statistical reports, and analysis of information, and 4) assistance in collection and analysis of data for public health services planning.

The curriculum of the Health Information Management program is approved by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). This is a limited access program and requires a separate application to the program by March 1 of the year in which admission is sought. Graduates of the Health Information Management program are eligible to take the AHIMA Registered Health Information Administration Certification exam. By successfully passing the exam, the graduate will be recognized as a Registered Health Information Administrator (RHIA).

**Degrees:** Health Information Management (BS)
**Tracks:** None
**Minors:** Health Information Management

**Program in Health Sciences-Athletic Training**
*Director: K. Schellhase; HPA2 124; 407-823-3463*

The Program in Athletic Training at the University of Central Florida is a track in the Program in Health Sciences. The athletic training track is a six semester program where students complete 12-15 credits per semester while engaged in clinical affiliations. The core of athletic training coursework emphasizes the competencies and proficiencies necessary for successful clinical practice in a variety of settings in which certified athletic trainers are presently employed. A significant and important aspect of the educational process is the series of clinical experiences that occur in a variety of settings under the direction of an approved clinical instructor and certified athletic trainer. These local affiliation sites include high schools, colleges, universities, rehabilitation clinics, and professional athletic organizations. Upon successful completion of the course of study, the graduate with a Bachelor of Science degree in Health Sciences – Athletic Training Track is eligible to take the National Athletic Trainer’s Association Board of Certification (BOC) Exam. By successfully passing the exam, the student will be recognized as a certified athletic trainer (ATC). The Program in Athletic Training is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). This is a competitive program that requires a separate application process following acceptance into the University. Consent from the program director is required.

**Degrees:** Health Sciences (BS)
**Tracks:** Athletic Training
**Minors:** None

**Program in Health Sciences-Pre-Clinical Allied Health Track**
*Director: T. Falen; HPA2 210; 407-823-2369*

This program is a preparatory program for Graduate Level Clinical Disciplines for the student who wishes to seek admission to graduate level clinical programs such as physical therapy, occupational therapy and physician assistant programs. Students with this preparation could also pursue graduate programs in Public Health, Environmental Health, or Health Services Administration.

**Program in Health Services Administration**
*Director: T. Falen; HPA2 210; 407-823-2369*

The department offers a baccalaureate degree in Health Services Administration. The baccalaureate degree is designed for students who desire to study the business side of health care. The primary goal of the program in Health Services Administration is to prepare managers to direct a variety of health care organizations such as hospitals, HMO’s, clinics and any other organization involved in the delivery or management of health care services. The undergraduate curriculum is consistent with the curricular requirements of the Association of University Programs of Health Administration, stressing administration, policy and planning skills. A diverse health care community offers students a variety of internship experiences as well as providing placement opportunities upon graduation. Faculty are actively engaged in research relating to management, conflict resolution, occupational stress, outcome assessment and integrated delivery mechanisms.

People within the health care industry with associate of science degrees in areas such as nursing, respiratory therapy, radiologic technologies, medical laboratory technology, dental hygiene, and others may find this program providing a migration path from the clinical side of the health care industry to the leadership side. Students without a background in the health care industry can build a solid understanding of the complexity of managing health services organizations.

**Degrees:** Health Services Administration (BS, MS)
**Tracks:** None
**Minors:** Health Services Administration, Health Sciences

**Program in Radiologic Sciences**
*Director: T. J. Edwards III; HPA2 210; 407-823-2747*

The University of Central Florida offers the only public accredited Bachelor of Science in Radiologic Sciences degree program in Florida. The Radiologic Sciences Program offers entry-level students the opportunity to specialize in conventional radiography and the advanced imaging modalities. Radiographers are integral members of the health care team dedicated to providing high quality patient care. Graduates are prepared to function as clinically competent radiographers and, with experience, advance to leadership positions in the profession.

The University of Central Florida also sponsors an A.S. to B.S. transfer program designed for ARRT certified Radiographers interested in combining their professional development with earning a baccalaureate degree in Radiologic Sciences. Didactic courses for the entry-level and the A.S. to B.S. transfer programs are offered in the classroom and on the internet. Additional information regarding the transfer program is provided in the “Articulated A.S. to B.S. Degree Programs” section of the catalog.

The primary role of radiographers is to perform medical imaging procedures for the diagnosis of disease and injury. The radiographer enjoys an interesting and challenging variety of examinations/procedures which may include conventional radiography, fluoroscopy, mammography, vascular imaging, computed tomography and magnetic resonance imaging. Employment opportunities are available in hospitals, imaging centers, and private physician offices. Career advancement opportunities include positions in advanced imaging.
The virtues of public sector employment are numerous. First, the range of employment opportunities is extraordinary and includes a variety of management and staff positions in city and county management, environmental protection, homeland security, human resources, nonprofit management, urban planning, economic development, policy and administration, and emergency management, among others. Second, the salaries are generally highly competitive with private industry, despite common misconceptions to the contrary. Third, public sector employment provides people with the opportunity to “make a difference” for society and help individuals one at a time. Fourth, it provides a superior stability and continuity of career. Those seeking to work in or already employed in the nonprofit sector will find it booming as the intergovernmental system increasingly delegates the delivery of services to nonprofits.

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College of Optics and Photonics: CREOL and FPCE

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

The College of Optics and Photonics: CREOL and FPCE is a graduate school for research and education in optics, lasers, and photonics. It was established in 1986 to provide the highest quality education in optics and lasers, conduct scholarly fundamental and applied research, and aid in the development of Florida's high technology-based industries.

CREOL (Center for Research and Education in Optics and Lasers) and FPCE (the Florida Photonics Center of Excellence) are the research arms of the College of Optics and Photonics. The School offers Masters (MS) and Doctoral (Ph.D.) Degrees in Optics. The College of Optics and Photonics/CREOL has become an internationally recognized institute with 25 faculty members, 30 Ph.D. level research scientists, and 137 graduate students. The faculty are recognized as being among the best in the optics/laser/photonics field, with two thirds holding the rank of Fellow in major national and international professional societies. It is housed in a state-of-the-art 83,000-square-foot building dedicated to optics, photonics, and laser education and research on the main campus. This facility houses ninety research laboratories equipped with over $35 million in state-of-the-art equipment.

The research activities span the spectrum from basic science to prototype development. The faculty and research staff pursue joint research projects with industry, academia, and government laboratories, and are always seeking new opportunities to work with industry to expose students to the industrial environment and to help in technology transfer. Current research areas include: nanophotonics, biophotonics, imaging science, plasmonics, high-speed photonics networks and telecommunications, solid state laser development, nonlinear optics, laser induced damage, quantum-well optoelectronics, photonic information processing, infrared systems, optical system design, image analysis, virtual reality, medical imaging, diffractive optics, optical crystal growth and characterization, high intensity lasers, x-ray optics, EUV sources, optical glasses, liquid crystal devices, laser materials processing, and light matter interaction. These programs are supported by over $17 million of research grants and contracts annually from numerous federal and state agencies and industry.

Graduate assistantships, with stipends ranging from $18,000 to $27,500, are available to outstanding students pursuing graduate education in optics and photonics. Research training opportunities are also available to undergraduate students through the Research Experience for Undergraduates (REU) program sponsored by the National Science Foundation, and other research grants and contracts.

The College has a very active Industrial Affiliates Program to facilitate strong cooperative relations with industry. The program provides industry with benefits of cutting-edge research and access to the expertise and facilities of the College. Faculty members also team with Florida-based small businesses to help them compete for federally sponsored Small Business Innovative Research (SBIR) programs. The program provides industry with effective ways to contribute to and sustain the research and teaching of optics and photonics.
The College of Sciences houses the departments of Anthropology, Biology, Chemistry, Mathematics, Physics, Political Science, Psychology, Sociology, and Statistics and Actuarial Science; the Nicholson School of Communication; and the National Center for Forensic Science.

The College of Sciences offers many of the courses that fulfill admission requirements for professional schools in the Health Sciences. Research experience and exposure to specialized topics not taught through formal courses may be gained through independent study contracts. Undergraduates enrolled in the College must fulfill all University degree requirements, including those for general education, as well as the requirements of the degree program. To be certified for graduation, a student must achieve a cumulative GPA (2.0) in the courses of his or her major and/or minor. The College is responsible for all programs in the sciences and the departments collectively offer 35 baccalaureate, graduate, and pre-professional programs.

Preprofessional Programs

PreLaw Program

PreLaw Advisor: Roger Handberg; CNH 414; 407-823-2608

There is no preferred major for pre-law. Law schools accept superior students with a good liberal arts or science background, regardless of major field. The quality of undergraduate education for the legal profession, according to the Association of American Law Schools, is grounded in three basic skills and insights: comprehension and expression in words, critical understanding of the human institutions and values with which the law deals, and the creative power of thinking. Law schools require that applicants take the Law School Admission Test (LSAT). General information pertaining to programs of study, the LSAT, careers, and law schools can be obtained from the Pre-Law Advisor. Advisement about the major is provided by the office of the Dean offering the major.

Prehealth Professions

The College of Sciences offers many of the courses that fulfill admission requirements for professional schools in the Health Sciences. Refer to the Biology Preprofessional section for additional information.

Advisement

Office of Academic Support and Information Services (OASIS)

E-Mail: oasis@ucf.edu

The Office of Academic Support and Information Services (OASIS) is the primary office for undergraduate academic assistance for both the College of Arts and Humanities as well as the College of Sciences. OASIS assists students with degree requirements, policies, and procedures as well as coordinates orientation, registration, readmission for suspended students, and graduation. Questions concerning University and College academic policies and requirements should be directed to OASIS. Questions concerning independent study contracts. The student should contact the department early in his/her academic career. For additional information about OASIS, please visit our website.

Programs and Degrees

Title                      Degree
Actuarial Science         BS
Advertising/Public Relations BA
Anthropology               BA, MA, Minor
Astronomy                 Minor
Biology                    BS, MS, PhD, Minor
Biomolecular Sciences     PhD
Chemistry                  BS, MS, PhD, Minor
Communication             MA
Forensic Science           BS, MS
Interpersonal and Organizational Communication BA, Minor
Journalism                BA
Magazine Journalism        Minor
Mathematics                BS, MS, PhD, Minor
Mass Communication         Minor
Physics                    BS, MS, PhD, Minor
Political Science          BA, MA, Minor
Psychology                 BA, BS, MA, MS, PhD, Minor
Radio/Television           BA
Sociology                  BA, MA, PhD, Minor
Statistics                BS, MS, Minor

Departments and Programs

Anthropology: Department

http://www.cas.ucf.edu/soc_anthro/
E-mail: anthropology@ucf.edu

Interim Chair: A. Chase;
PH 403; 407-823-2227


The Department offers a Bachelor of Arts in Anthropology, and provides supporting courses for Forensic Science. Students should consult with their departmental advisor early in their academic careers.

Degrees: Anthropology (BA)

Tracks: None

Minors: Anthropology, Anthropology in Multicultural Studies

Biology: Department

http://www.cas.ucf.edu/biology/
E-mail: biology@ucf.edu

Chair: David Borst; BL 301;
407-823-2141

Faculty: Bayer, Borst, Calestani, Fauth, Fedorka, Harris, Hoffman, Jenkins, Loguidice, Morrison-Shelton, Nadeau, Noss, Osborne, Parkinson, Quigley, Quintana-Ascencio, Roth, Shetlar, Sotero-Esteve, Stout, Sweet, Thomas, Vajravelu, von Kalm, Walters, Waterman, Weishampel, Worthly.

Professors Emeritus: Ehrhart, Ellis, Kuhn, Koevenig, Snelson, and Taylor.

The Department of Biology offers a Bachelor of Science in Biology, a Minor in Biology, the Master of Science in Biology, a graduate Certificate in Conservation Biology, and a Ph.D. in Conservative Biology, and participates in an interdisciplinary Ph.D. program in Biomolecular Sciences. The core undergraduate curriculum provides a background in the chemical, mathematical, and physical sciences, as well as broad preparation in the biological sciences. This diverse background opens career opportunities for graduates in areas outside of their particular degree program. Graduates are well prepared to further their education in professional or graduate schools. Selection of electives, in consultation with a faculty advisor, permits emphasis on a subspecialty. Careful selection of restricted and unrestricted electives allows students to satisfy requirements for admission to professional or graduate school while completing their B.S. degree in Biology. Research experience and exposure to specialized topics not taught through formal courses may be gained through independent study contracts.

Degrees: Biology (BS, MS, PhD)
The College of Sciences

Tracks:
- Biology Pre-professional (BS)
- Biology

Chemistry: Department
http://www.cas.ucf.edu/chemistry
E-mail: chemsta@mail.ucf.edu
Chair: Kevin D. Belfield;
CH 117; 407-823-2246

Associate Chair and Undergraduate Coordinator: Cherie L. Geiger;
CH 325; 407-823-2135

Faculty: J. Ballantyne, K. Belfield, A. Campiglia, C. Clausen, D. Diaz,
S. Elisheimer, B. Fookes, C. Geiger, A. Gesquiere, M. Hampton, F.
Hernandez, J. Hickman, E. Kluger, Q. Huo, S. Kuebler, F. Kujawa, S.
Mallick, A. Masunov, G. Mattson, H. Miles, M. Perez, R. Petzold, O.
Phanstiel, T. Selby, M. Sigman, S. Santra, L. Zhai

The Department of Chemistry offers courses and programs leading to
a Bachelor of Science in Chemistry, a Bachelor of Science in Forensic
Science, a minor in Chemistry, a Master of Science in Industrial
Chemistry, Master of Science in Forensic Science, and a Ph.
D. in Chemistry. The department also participates in the Ph.D. in
Biomolecular Science. The undergraduate degree program in chem-
istry is accredited by the American Chemical Society Committee on
Professional Training. It prepares the graduate for career opportuni-
ty in the chemical or related industries, or in government laborato-
ries. The program also prepares students for further study at the
graduate level in chemistry or in a related area such as materials sci-
cence, pharmacology, or toxicology. With an appropriate choice of
electives it also constitutes excellent preparation for the professional
schools of dentistry, medicine, pharmacy, and veterinary medicine.

Degrees: Chemistry (BS, MS, PhD),
Forensic Science (BS, MS)
Tracks: Chemistry, Forensic Analysis,
Forensic Biochemistry
Minors: Chemistry

Communication: Nicholson School
http://www.cas.ucf.edu/communication
E-mail: communication@ucf.edu
Director: M.A. Shaver;
COM 238; 407-823-2681

Faculty: Bakta, Bley, Ballantine, Barfield, Bledsoe, Brown, Brunson,
J. Butler, Collins, Costain, Davis, Delorme, D. Shaver, Fedder, Hall,
Hanlon, Hastings, Hodgson, Ihde, Katt, Kenney, Major, Malala,
Maunez-Cuadra, McCaín, Mills, Morgan, Moroux, Morrison, Neel,
Pryor, Rice, Santana, Scott, Smith, Sublette, Thompson, Wagner, M.
Wagner, Workman.

Faculty Emeriti: Meeske, O’Keefe, Taylor, Wycoff

The Nicholson School of Communication provides students with a
balance of practical skills and philosophical aspects of communica-
tion. The programs prepare students to understand mass media as
social institutions and train them for professional careers. The School
is composed of four Divisions each of which offer a Bachelor of Arts
degrees. The degrees are:

1. Advertising/Public Relations. Provides theory and practice in
both advertising and public relations.
2. Interpersonal & Organizational Communication. Provides knowl-
edge, theory, and skills needed to understand and predict human
communicative behavior.
3. Journalism. Provides theory and skills needed to gain employ-
ment in newspapers, magazines, and similar forms of mass com-
unication.
4. Radio-Television. Provides theory and skills needed for careers
in radio, television, and related forms of electronic communication.

A Master of Arts degree in Communication is offered.

Facilities

The Radio-Television Division has fully-equipped audio and video
production facilities, a complete multi-camera television studio, an
online radio station, and laboratories for interactive multimedia. The
Journalism Division has computer labs and a digital darkroom. The
Advertising/Public Relations Division has a computer writing lab. The
Interpersonal/ Organizational Communication Division has a presen-
tational speaking classroom equipped for audio/video record/play-
back and computerized visual presentation. The Division also has a
small group laboratory equipped with audio/video record/playback.

Degrees: Advertising/Public Relations (BA), Interpersonal &
Organizational Communication (BA), Journalism (BA),
RadioTelevision (BA)

Specializations: Broadcast Journalism, Production, Broadcast
Generalist, News Writing, Visual Communications, Editing

Minors: Interpersonal Communication, Magazine Journalism, Mass
Communication, Organizational Communication

Mathematics: Department
http://math.ucf.edu
E-mail: math@mail.ucf.edu
Chair: Zuhair Nashed;
MAP 209; 407-823-0445

Faculty: Andrews, Anthony, Cannon, Caron, Choudhury, Clarke,
Danielyan, Dunlop-Pyle, Dutton, Griffiths, Han, Higgins, Ismail,
Kassab, Katsevich, Kaup, Li, Martin, Mikusinski, Mohapatra,
Nicholson, Ou, Pensky, Phillips, Qi, Reid, Ren, Richardson,
Rodriguez, Rollins, Schober, Shimavoggi, Song, Sun, Tamasan,
Tovbis, Vajravelu, Vartanian, Yong, Young, Zhao

The Department of Mathematics offers courses and programs which
lead to a Bachelor of Science in Mathematics, a minor in
Mathematics, a Master of Science in Mathematical Science and a
Ph.D. in Mathematics. (See the Graduate Studies catalog for a
description of the M.S. in Mathematical Science and the Ph.D. in
Mathematics.) The programs in mathematics are designed to serve;

1. students who desire to pursue careers in mathematics after hav-
   ing completed a baccalaureate degree;
2. students who desire to continue their education in graduate and
   professional schools; and
3. students who need to use advanced mathematics as a tool in their
   specialty areas.

In order to serve such a wide variety of students, the courses and
programs in the Department of Mathematics have developed along
several lines. There are the usual service courses in pre-calculus and
calculus along with strong programs in the upper division in the
traditional areas of algebra and analysis and applied mathematics.

The department does not award credit by examination for courses
which are regularly taught. Students who feel they know the material
in a given course are encouraged to take a more advanced class to
fulfill their mathematics requirement. A limited number of student
assistantships are available for qualified graduate students.

Degrees: Mathematics (BS, MS, PhD)
Tracks: Applied Mathematics, Computational Mathematics,
Engineering/Physics, Mathematics, Pure Mathematics
Minors: Mathematics

Physics: Department
http://www.physics.ucf.edu
E-mail: physics@ucf.edu
Interim Chair: Ralph Liebenthal;
MAP 310; 407-823-2325

Associate Chair: Lee Chow;
MAP 315; 407-823-2333

Faculty: Bhattacharya, Bindell, Bose, Braunstein, Britt,
Brueckner, Campins, Chemyak, Chow, Del Barco, Efthimiou,
Fernandez, Heinrich, Johnson, Khondaker,
Kokouline, Leuenberger, Llewellyn, Luo, Martin, Montgomery,
Mucioio, Neighbor, Peale, Roldan-Cuenya, Saha, Schelling,
Schulte, Tonner, Winningham.

Faculty Emeritus: Brenner
Visiting Faculty: Cooney, Dubey, Fliotisian, Ngwa, Zhmudsky.

The Department of Physics offers a multi-track program of study
leading to the B.S. degree, giving students the flexibility to choose a
suitable set of courses to prepare for their career goals. A common
core of courses in theoretical and experimental physics will lead to a
broad understanding of the general principles of physics. The differ-
ent tracks allow students to specialize, applying problem-solving
techniques in a certain area of interest; this also enhances their qual-
ifications for employment in that area after graduation.

After graduation our students are prepared to enter advanced study
in physics, engineering, medicine, environmental sciences, astro-
my, and other related disciplines. They are also prepared to begin
careers in positions that are varied as engineering physics, computational
physics, and physics education. Undergraduate physics majors ben-
efit from small class sizes, and are encouraged to be involved in

102 UNIVERSITY OF CENTRAL FLORIDA 2006-2007 Undergraduate Catalog
The Department of Political Science seeks to:

1. Provide students with a broad background for careers in foreign politics, and domestic public service and in the private sector where a knowledge of government and politics is necessary;
2. Provide students with a broad background in pre-law to facilitate their admission to law school;
3. Prepare students for teaching, research, and graduate study in Political Science;
4. Provide a broad background for careers in politics; and
5. Educate citizens and promote their active interest in public affairs.

Students should plan their major or minor in consultation with their departmental advisor according to their interests and career objectives.

Political Science courses are divided into three areas of specialization: American Politics and Policy; International Relations and Comparative Politics; and Political Theory. It is strongly recommended that majors planning to continue their education at the graduate level or to pursue a career in international fields acquire a working knowledge of a foreign language. The Department of Political Science participates in the following programs:

- Asian Studies: Contact Houman Sadri.
- Environmental Studies: Contact Dwight Kiel or Peter Jacques.
- European Studies: Contact Kerstin Hamann.
- Global and International Studies: Contact Waltraud Q. Morales.
- Latin American and Iberian Studies: Contact Waltraud Q. Morales or Bruce Wilson or Annabelle Conroy.
- Space Studies: Contact Roger Handberg.
- Women’s Studies: Contact Terri S. Fine or Annabelle Conroy.

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

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

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

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The Undergraduate Psychology Program has two primary missions; to prepare students for graduate training in psychology or related fields, and to provide the skills needed for students to apply the concepts and methods of psychology in their work, their communities, and their lives.

Students may pursue either a BA or a BS degree in Psychology. The BS option has more science and math-related requirements as well as additional courses in psychology research and statistical methods. As such, it is best for students planning to pursue a graduate degree.

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

**Tracks:** None

**Minors:** Psychology, Behavioral Forensics Certificate

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The Department offers a Bachelor of Arts in Sociology. Students should consult with their departmental advisor early in their academic careers.

**Degrees:** Sociology (BA, MA)

**Tracks:** Domestic Violence (MA)

**Minors:** Sociology

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The Department of Statistics and Actuarial Science offers courses and programs leading to a Bachelor of Science in Statistics, a Bachelor of Science in Actuarial Science, a minor in Statistics, and a Master of Science in Statistical Computing with tracks in Data Mining and Actuarial Science. (See the Graduate Studies catalog for a description of the M.S. in Statistical Computing.)

The undergraduate programs in statistics and actuarial science are designed to serve 1) students who desire to pursue careers in statistics or actuarial science after having completed a baccalaureate degree; 2) students who desire to continue their education in graduate or professional schools; and 3) students who use statistics or actuarial science as tools in their specialty areas.

In order to serve such a wide variety of students, the courses and programs in the Department of Statistics and Actuarial Science have been developed along several lines. There are the usual service courses in elementary statistics along with strong programs in the upper division in statistical methods, statistical theory, statistical computing, and actuarial science. A limited number of assistantships are available for qualified graduate and undergraduate students.

**Degrees:** Statistics (BS, MS), Actuarial Science (BS, MS Track)

**Tracks:** None

**Minors:** Statistics

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**The College of Sciences**
Rosen College of Hospitality Management

Dean: Abraham Pizam; 9907 Universal Boulevard, Suite 231-H
Orlando, Florida 32819; 407-903-8000

Associate Dean: Stephen LeBruto; 9907 Universal Boulevard, Suite 231-A; 407-903-8015

Faculty: Ashley, Breiter, Chen, Croes, Dickson, DiPietro, Fisher, Frielstul, Hara, Iskat, Juge, Jung, Kaufman, Krebs, Logan, Marshall, Milman, Muller, Murphy, Naipaul, Okumus, Rompf, Severt, Tesone, Upchurch, Wang

Website: www.hospitality.ucf.edu

The hospitality industry represents the second largest employer in the United States and is the major part of the rapidly growing services sector of the economy. Because of its unique location in the premier tourist destination in the world, the Rosen College of Hospitality Management is ideally situated to prepare students for managerial careers in the hospitality industry. Whether the student is interested in entering lodging, food service, travel and tourism, financial management and technology, theme parks, vacation ownership resorts, golf management, or event management, the Orlando and Central Florida area offers extraordinary opportunities. It is the destination for over 45 million tourists each year, has over 400 hotels with 120,000 rooms, 5,000 restaurants, and 75 theme parks and attractions. The industry employs a half million people in the State of Florida and many are in the Central Florida area.

The educational mission of the College is to provide students with the knowledge, skills, and ability to identify opportunities and challenges in the hospitality industry, and to apply creative decision techniques in responding to those opportunities.

The curriculum is designed to prepare students for a broad range of managerial roles across the hospitality industry. It provides both academic preparation and practical experiences that students will need to enter and succeed in a hospitality management career. Students also have the opportunity to experience the work world in hospitality through an internship requirement and through extensive contact with leading hospitality managers in the Central Florida area.

The College also houses the Linda Chapin Eminent Scholar Chair in Tourism Management and the Dick Pope Sr. Institute for Tourism Studies which was created and funded by the travel and tourism industry in Central Florida. The Institute conducts research and gathers information that helps the entire Orlando area hospitality industry better understand and serve its many guests from around the world.

The Center for Multi-Unit Restaurant Management and the Darden Eminent Scholar Chair in Restaurant Management provide a unique focus in the curriculum on corporate restaurant management. Students have access through the Center to leading restaurant industry executives. This academic unit is an integral part of the Rosen College of Hospitality Management.

Distinctive Benefits
- A state-of-the-art facility located in the heart of the tourism district in Orlando, Florida with on-campus housing.
- Access to the many hospitality organizations that serve one of the premier tourist destinations in the world.
- Extensive ties with the top leadership of the Orlando area hospitality industry.
- A large number of scholarships made available through the generous support of the industry.
- A faculty committed to continuously improving their knowledge of the hospitality industry as well as their ability to teach that knowledge to their students.
- A required work experience that provides students with practical experiences in the hospitality industry.
- Outstanding opportunities for internships.
- A modern food production laboratory and teaching restaurant completely equipped to provide students with experience in food preparation.
- American Resort Development Association (ARDA) Professorship of Vacation Ownership.
- Central Florida Hotel and Lodging Association (CFHLA) Professorship of Convention and Conference Management.

Degrees: Event Management (BS), Hospitality Management (BS) Restaurant and Foodservice Management (BS)

Minor: Hospitality Management

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

Liberal & Interdisciplinary Studies
Classroom Bldg I, Suite 302
E-mail: ls@mail.ucf.edu
Director: Elliot Vittes; 407-823-0114
Program Contact: The Liberal Studies Advising Team
  Academic Advisors: Karen Cox, Lee Logan, Linda Skrotsky, Sandra Tabert
The Liberal Studies Program offers students the opportunity to pursue interdisciplinary studies through individually planned programs of study that include twelve different areas plus minor degree programs. The degree includes seven different tracks: Liberal Studies, Liberal Arts, Computer Information Technology, Environmental Studies, Nanoscience & Nanotechnology, Articulated A.S. to B.S., and Women’s Studies.

Degrees: Liberal Studies (BA, BS, MA, MS), Social Sciences BS
Tracks: Liberal Studies, Liberal Arts, Environmental Studies, Women’s Studies, Computer Information Technology, Nanoscience & Nanotechnology, Articulated A.S. to B.S.
Minors: Environmental Studies, Social Sciences Interdisciplinary
Certificates: Cultural Tourism

Social Sciences: Program
Classroom Bldg I, Suite 302
Contact Program: Liberal Studies Advising, 407-823-0144
The Social Sciences program offers students an opportunity to become acquainted with the various fields of the Social Sciences and to better understand the relationships between those fields. Satisfactory completion of the program leads to the Bachelor of Science degree with a major in Social Sciences.

Degrees: Social Sciences (BS)
Tracks: None
Minors: Social Sciences-Interdisciplinary
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<td>Criminal Justice - A.S. to B.S. Track</td>
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<td>Economics (B.A. &amp; B.S.B.A.)</td>
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<td>Economics - Accelerated Undergraduate-Graduate Program</td>
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<td>Electrical Engineering</td>
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<td>Electrical Engineering Technology - A.S. to B.S.E.E.T. Track</td>
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<td>Electrical Engineering Technology - Photonics Track (B.S.E.E.T.)</td>
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<td>Informational Systems Technology - A.S. to B.S. Track</td>
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<td>Management</td>
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<td>Mathematics - Applied Track</td>
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<td>Mathematics - Computational Track</td>
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<td>Molecular Biology and Microbiology</td>
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<td>Music</td>
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<td>Political Science - Prelaw Track</td>
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<td>Psychology (B.A. &amp; B.S.)</td>
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<td>Public Administration</td>
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<td>Radio - Television</td>
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<td>Radiologic Sciences</td>
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<td>Technical Education and Industry Training</td>
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<td>Theatre (B.A. &amp; B.F.A.)</td>
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<td>Theatre - Musical Theatre Track</td>
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<td>Women's Studies</td>
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ACCOUNTING (B.S.B.A.)
College of Business Administration, BA2 101, 407-823-2184
http://www.bus.ucf.edu

Admission Requirements
- Completion of the General Education program at UCF, a Florida Public Community College, or a Florida Public University
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (min 36 hrs)
   A. Communication Foundations 9 hrs
      Required: SPC 1600
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 1105 College Algebra 3 hrs
      Select COS 2100CC Computer Fund. for Bus 3 hrs
   D. Social Foundations
      Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics 3 hrs
      Select one: PSY 1202, SYG 2000, ANT 2000 3 hrs
   E. Science Foundation 6 hrs

2. Common Program Prerequisites
   Must be completed with a "C" (2.0) or better
   ACG 2021 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   ECO 2013 Macroeconomics
   ECO 2023 Microeconomics
   *ECO 3401 Quantitative Business Tools I
   *At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401.
   Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Common Body of Knowledge (30 hrs)
   First or subsequent semester in the College of Business Administration:
   GEB 3031 Cornerstone (Required in 1st or 2nd semester) 6 hrs
   GEB 3356 Intro to International Business 3 hrs
   ECO 3411 Quantitative Business Tools II 3 hrs
   FIN 3403 Business Finance 3 hrs
   MAN 3025 Management of Organizations 3 hrs
   ISM 3011 Essentials of Management/Information Systems 3 hrs
   MAR 3023 Marketing 3 hrs
   BUL 3130 Legal and Ethical Environment of Business 3 hrs
   Last Semester:
   MAN 4720 Strategic Management 3 hrs

4. Special College and/or Departmental Requirements
   - Students must earn at least 60 credit hours of coursework outside of the College of Business (ECO 2013, 2023, 3401, and 3411) and completion of at least 60 semester hours of college credits
   - Students who change degree programs and select this major must adopt the most current catalog.
   - Students must have a "C" (2.0) or better in each common program prerequisites class.
   - A minimum grade of "C" (2.0) must be earned in each accounting, business law, and tax course completed. Principles of Financial Accounting and Principles of Managerial Accounting are included under this rule.
   - Students in the Accounting major must maintain a 2.0 or higher cumulative Grade Point Average in all 3000 level or higher Accounting or Tax courses taken at UCF. Failure to maintain the required 2.0 Grade Point Average will result in the student being placed on lack of progress in the major. Lack of Progress in the major will continue until such time as the student's cumulative GPA in all Accounting and Tax courses reaches 2.0 or higher. If a student on lack of progress in the major fails to achieve a 2.0 minimum GPA in Accounting and Tax courses in a subsequent term, that student will be dropped as an accounting major. A student who is dropped may seek readmission as an Accounting major by submitting a letter indicating the reasons for academic difficulties and positive plans for achieving an Accounting and Tax GPA of 2.0 or higher. Readmission is not automatic.
   - Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.

Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.

- All students must have credit for a course in each of the following areas:
  - English communication arts including written composition
  - Oral expression
  - Behavioral science such as psychology, anthropology, and sociology
  - Humanities
  - Political environment of business and society such as political science, public administration, and ethics

- Students must have at least a 2.0 GPA in the College of Business and in the accounting major.
- A grade of "C-" (1.75) or lower is not satisfactory for continuing into other accounting courses and will not count toward graduation for an accounting major.

5. Foundation (Required) (12 hrs)
   - ACG 3131 Financial Accounting Concepts and Analysis 3 hrs
   - ACG 3361 Intermediate Managerial Accounting 3 hrs
   - ACG 4401C Accounting Information Systems 3 hrs
   - TAX 4001 Taxation of Business Entities and Transactions 3 hrs

6. Area Specialization/Concentration Requirements (9 hrs)
   Select one set from the following area specialization options:
   A. Public Accounting
      - ACG 3141 Intermediate Financial Accounting 3 hrs
      - ACG 3501 Accounting and Auditing in the Public Sector 3 hrs
      - ACG 4651 Auditing 3 hrs
   B. Managerial Accounting
      - ACG 4671 Internal Auditing 3 hrs
      - ACG 5346 Intermediate Managerial Accounting 3 hrs
      - FIN 3414 Intermediate Corporate Finance 3 hrs
   C. Accounting Information Systems
      - ACG 4671 Internal Auditing 3 hrs
      - ACG 5405 Advanced Accounting Information Systems 3 hrs
      - ISM 3253 MIS Techniques 3 hrs
   D. Governmental and Not-For-Profit Accounting
      - ACG 3501 Accounting and Auditing in the Public Sector 3 hrs
      - ACG 4671 Internal Auditing 3 hrs
      - ACG 5517 Financial Accounting and Auditing for Governmental and Nonprofit Organization 3 hrs
   E. General Accounting
      - Select one additional financial reporting course:
        - ACG 3141 Intermediate Financial Accounting or
        - ACG 3501 Accounting and Auditing in the Public Sector 3 hrs
      - Select one auditing course:
        - ACG 4651 Auditing 3 hrs
        - ACG 4671 Internal Auditing 3 hrs
      - Select one additional accounting course from the following Restricted Electives list below:
      - Note: Course substitutions in any area require approval by the Director, School of Accounting. A grade of "B" or better in pre-requisite course required to take graduate level courses and a minimum GPA of 2.75.

7. Restricted Electives (3 hrs)
   Students may choose among the following accounting and accounting-related business courses:
   - ACG 3141 Intermediate Financial Accounting 3 hrs
   - ACG 3501 Accounting and Auditing in the Public Sector 3 hrs
   - ACG 4401C Accounting Information Systems 3 hrs
   - ACG 4651 Auditing 3 hrs
   - ACG 4671 Internal Auditing 3 hrs
   - ACG 4932 Approved Special Topics Courses in Accounting 3 hrs
   - ACG 4970H** Honors Thesis in Accounting 3 hrs
   - TAX 4001 Taxation of Business Enterprises 3 hrs
   - ACG 5346 Advanced Managerial Accounting 3 hrs
   - ACG 5405 Advanced Accounting Information Systems 3 hrs
   - ACG 5517 Governmental and Nonprofit Accounting 3 hrs
   - BUL 3332 Advanced Business Law Topics 3 hrs
   - FIN 3414 Intermediate Corporate Finance 3 hrs
   - FIN 4453 Financial Models 3 hrs
   - ISM 3253 MIS Techniques 3 hrs
   - ISM 4212 Database Management Systems 3 hrs
   - TAX 5015 Advanced Taxation Topics 3 hrs
   (HPA electives to be added for Governmental Specialization)

*Enrollment restricted to students accepted into the Honors in the Major Program

8. Honors in the Major (6 hrs)
   Eligibility: Requirements for admission to Honors in the Major are: completion of at least 60 semester hours of college credits including at least 12 graded upper-division hours at UCF; at
UCF Degree Programs

least a 3.5 GPA within the major; and at least a 3.2 cumulative GPA including all upper-division courses regardless of institution.

Admission: Application for admission to the Honors in the Major program must be approved by both the Honors in the Major Coordinator for the School of Accounting and Associate Dean of the Honors College plus the payment of $25.00 one-time membership dues.

Requirements: Students accepted into the Honors in the Major Program must complete either:

- *ACG 4903 Directed Readings in Accounting or 3 hrs
- *ACG 4904H Honors Seminar in Accounting 3 hrs plus
- ACG 4970H Honors Thesis in Accounting 3 hrs
- * With approval of the School of Accounting Honors in the Major Coordinator, the Directed Readings or Honors Seminar course will satisfy one of the Area Specialization course requirements toward satisfaction of the course requirements for the Accounting Major.

9. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Students pursuing a Bachelor of Arts Degree may substitute American Sign Language for the foreign language exit requirement, except where one or more foreign languages have been specified by a college, school, or program for a specific degree.

Graduation: none

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted

Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable)

Total Semester Hours Required 120 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, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waivered from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.

- ACG X001 and X011 will substitute for ACG 2021 at UCF

- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.

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

- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.

- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

SUGGESTED FOUR YEAR PLAN OF STUDY - ACCOUNTING

Freshman

<table>
<thead>
<tr>
<th>1st Term</th>
<th>15 hrs</th>
<th>2nd Term</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>MAC 1105*</td>
<td>3</td>
<td>Art/Music/Lit*</td>
<td>3</td>
</tr>
<tr>
<td>Psy/Sys/Art</td>
<td>3</td>
<td>GES 2100CC*</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>3</td>
<td>Science</td>
<td>3</td>
</tr>
<tr>
<td>Must complete 9 hours in a Summer term</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sophomore

<table>
<thead>
<tr>
<th>1st Term</th>
<th>15 hrs</th>
<th>2nd Term</th>
<th>15 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 2023*</td>
<td>3</td>
<td>ECO 2013*</td>
<td>3</td>
</tr>
<tr>
<td>ACG 2021*</td>
<td>3</td>
<td>ACG 2071*</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1600*</td>
<td>3</td>
<td>POS 2041</td>
<td>3</td>
</tr>
<tr>
<td><strong>Elective</strong></td>
<td>3**</td>
<td><strong>Elective</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Elective</strong></td>
<td>3</td>
<td>ECO 3401*</td>
<td>3</td>
</tr>
<tr>
<td>* C (2.0) or better grade required in each class</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>** Accounting majors must have a “C” (2.0) or better in each class in the major to include law and tax and a 2.0 GPA in major</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Junior

<table>
<thead>
<tr>
<th>1st Term</th>
<th>15 hrs</th>
<th>2nd Term</th>
<th>15 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB 3031</td>
<td>6</td>
<td>ECO 3411</td>
<td>3</td>
</tr>
<tr>
<td>*BUL 3130</td>
<td>3</td>
<td>GEB 3356</td>
<td>3</td>
</tr>
<tr>
<td>*ISM 3011</td>
<td>3</td>
<td>MAN 3025</td>
<td>3</td>
</tr>
<tr>
<td>**ACG 3111</td>
<td>3</td>
<td>**ACG 4401C</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>**ACG 3361</td>
<td>3</td>
</tr>
<tr>
<td>** Accounting majors must have a “C” (2.0) or better in each class to include law and tax and a 2.0 GPA in major</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Senior

<table>
<thead>
<tr>
<th>1st Term</th>
<th>15 hrs</th>
<th>2nd Term</th>
<th>15 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>*<em>TAX 4001</em></td>
<td>3</td>
<td>MAN 4720</td>
<td>3</td>
</tr>
<tr>
<td>ACG Specialization</td>
<td>3</td>
<td>**ACG Specialization</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3403</td>
<td>3</td>
<td>**Elective</td>
<td>3</td>
</tr>
<tr>
<td>**ACG Specialization</td>
<td>3</td>
<td>**ACG Restricted Elective</td>
<td>3</td>
</tr>
<tr>
<td>MAR 3023</td>
<td>3</td>
<td>**Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**General electives as required to reach 120 semester hours.

ACTUARIAL SCIENCE (B.S.)

College of Sciences

Department of Statistics and Actuarial Science, CC II 212, 407-823-5562
http://www.cas.ucf.edu/statistics
E-mail: statistics@mail.ucf.edu
Nizam Uddin, 407-823-2692

Admission Requirements

Students must apply for admission to the Actuarial Science Concentration by March 15 of the Spring semester two years prior to expected graduation. Transfer students expecting to graduate in less than two years should apply immediately upon admission to UCF.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
UCF Degree Programs

- All statistics courses except STA 2023, STA 3032, and those protected by Florida Common Course Numbering must be taken from, or approved by the Statistics Department at UCF.
- Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Statistics Department.
- Students must earn at least a "C" (2.0) in each STA course.
- A minimum 2.0 average is required in all computer science and mathematics courses that count toward a statistics major.
- Co-op or internship credit cannot be used in this major without prior approval.
- Students should consult with a departmental advisor.
- Co-op or internship credit cannot be used in this major without prior approval.
- The following cannot be used: MAC 2233, MAC 2253, MAC 2254, all MAE courses; and MHF 4404.

5. Departmental Exit Requirements
- Earn a grade of "C" (2.0) or better in each STA course.
- Computer competency met by COP 3502C.
- Graduation: none

6. Foreign Language Requirements (0-8 hrs)
- Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
- Graduation: none

7. Electives (variable)
- Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA.
- 60 semester hours earned after CLEP awarded.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residence at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required: 120 hrs

Related Programs: Mathematics, Mathematics Education, Statistics
Related Minors: Statistics, Mathematics
Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- COP 3502C*: any COP programming language course.
- However, COP 3502C is a prerequisite for Computer Sciences courses and may need to be taken.
- BSC 2010C*: any laboratory BSC, CHM, or PHY course.
- However this is a prerequisite for BSC 2011C and will need to be taken.

Suggested Plan of Study:
- One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer
- Math test See catalog 0

Freshman Year
Fall
- ECO 2013 Prin of Macroeconomics 3
- ENC 3241 Writing for Technical Professionals 3
- STA 2023 Statistical Methods I 3

Spring
- MAC 2311 Calculus with Analy Geo I GEP 4
- MAC 2312 Calculus with Analy Geo II 4
- STA 4322 Statistical Theory II 3

Sophomore Year
Fall
- ENC 1101 Composition I 3
- ENC 2023 Prin of Microeconomics GEP 3
- MAC 2311 Calculus with Analy Geo I GEP 4
- STA 2023 Statistical Methods I 3

Spring
- MTH 2213 Multivariable Calculus 4
- STA 4321 Statistical Theory I 3

Junior Year
Fall
- ENC 3241 Writing for Technical Professionals 3
- STA 2023 Statistical Methods I 3

Spring
- STA 2023 Statistical Methods I 3
UF Degree Programs

ADVERTISING/PUBLIC RELATIONS (B.A.)

College of Sciences
Nicholson School of Communication, COM 250
407-823-2829
http://www.cas.ucf.edu/communication
E-mail: ad-pr@ucf.edu
Contact: Bob Davis
Limited Access program.
Admission Requirements
  Students should apply to become Advertising/Public Relations majors only after completing all requirements for admission.
  Deadlines are:
  - October 1 to be admitted the next Spring term
  - February 1 to be admitted the next Summer term
  - July 1 to be admitted the following Fall term
  - Admission is based on multiple factors, not strictly GPA.
  - Attain an overall minimum 2.5 GPA based on a minimum of 45 credit hours of college work. Note: meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis. The GPA cut-off varies somewhat with the quality of applicants, but for previous acceptance periods, the minimum GPA did not drop below 3.3.
  - Have acceptable keyboard skills.
  - Receive a positive evaluation of other factors specified by the School.

Degree Requirements
  Students who change degree programs and select this major must adopt the most current catalog.
  Co-op credit can be used in the major with advisor’s approval
  Students should consult with a departmental advisor
  School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication
  Of the 120 hours required for graduation, 80 hours must be taken outside of the Nicholson School of Communication.
  Of these 80 hours, 65 must be taken in the liberal arts (i.e. within the College of Arts & Humanities or the College of Sciences).
  To ensure completion within 120 hours and to comply with the 80 hour rule, no more than 40 of the 120 hours may be taken within the Nicholson School of Communication.
  Students electing to complete a minor must select the minor from outside the Nicholson School of Communication to remain below the 40 credit hour school maximum
  A maximum of six credit hours of internship may be earned in one semester. A total of nine credit hours of internship may be earned within the 120 credit hour 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

A. Communication Foundations
  - Select ENC 1101 & ENC 1102 6 hrs
  - Select SPC 1600 or SPC 1016 3 hrs
B. Cultural and Historical Foundations
C. Mathematical Foundations
  - Prefer MGF 1106 (may substitute a higher level math) 3 hrs
  - Select STA 2014C 3 hrs
D. Social Foundations
  - Select one course 6 hrs
  - Select one course 6 hrs

2. Common Program Prerequisites

Select one course
  - SPC 1016 Fund of Technical Presentations
  - SPC 1600 Fund Oral Communication

3. Core requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 2014C</td>
<td>Principles of Statistics</td>
<td>(27 hrs)</td>
</tr>
<tr>
<td>ADV 3000</td>
<td>Principles of Advertising</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ADV 4101</td>
<td>Advertising Copywriting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>COM 3110</td>
<td>Business and Prof Communication</td>
<td>3 hrs</td>
</tr>
<tr>
<td>COM 3311</td>
<td>Communication Research Methods</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MMC 4254</td>
<td>AdPR Campaigns</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MMC 4300</td>
<td>Mass Communication Law</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PUR 3100</td>
<td>Writing for Public Relations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PUR 4000</td>
<td>Public Relations</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Select one
  - PUR 4941 Internship
  - ADV 4941 Internship

4. School Exit Requirements

To avoid delaying graduation, the student must request a review of requirements before registering for the last term.

Achieve an overall “C” GPA (2.0) in required UCF Ad/PR courses. This GPA does not include electives.

Computer Competency met by CGS 1060C, STA 1060C or departmental assessment.

5. Foreign Language Requirements

Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

6. External Restricted Electives

Select primarily from upper level courses, with school advisor’s approval. Must be from outside of the school in order to not exceed the 40 credit hour cap. The majority of electives should be taken in the Liberal Arts to comply with the 60 hour Liberal Arts requirement.

7. University Minimum Exit Requirements

A 2.0 UCF GPA

60 semester hours earned after CLEP awarded
48 semester hours of upper division credit completed
30 of the last 36 hours of course work must be completed in residency at UCF
A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Marketing
Related Minors: Business, Marketing, Psychology

Transfer Notes:

Courses taken at community colleges do not substitute for Upper Division courses
Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>MGF 1106*</td>
<td>1C1-GEP</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select one course</td>
<td>3 hrs</td>
<td></td>
</tr>
</tbody>
</table>

Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 1005*</td>
<td>1E2-GEP</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPC 1600*</td>
<td>1A3-GEP</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Restricted*</td>
<td>3 hrs</td>
<td></td>
</tr>
</tbody>
</table>

Application See catalog

2006-2007 Undergraduate Catalog
Introduction to the Engineering Profession
Engineering Computer Graphics
Engineering Concepts & Methods
Engineering Analysis - Statics
Engineering Analysis - Dynamics
Thermodynamics
Structure & Properties of Aerospace Materials
Principles of Electrical Engg
Probability & Statistics for Engineers
Fundamentals of Aerospace Flight
Fundamentals of Aerodynamics
Aerospace Engineering Measurements
Design of Aerospace Experiments
Flight Mechanics
High-Speed Aerodynamics
Flight Structures
Space Systems Concepts
Spacecraft Attitude Dynamics
Orbital Mechanics
Aerothermodynamics-Propulsion Sys
Modeling Methods in MAE
Feedback Control
Solid Mechanics
Space Structural Design

Technical electives are available in the BSAE program to address specific student interests in a variety of technical areas. Students must consult with their assigned academic advisor for a list of the approved technical electives and the semesters when specific courses of this type are to be offered.

5. Departmental Graduation Requirements

6. Foreign Language Requirements

Graduation:
none

7. University Minimum Graduation Requirements

A 2.0 UCF GPA.
60 semester hours earned after any CLEP award.
48 semester hours of upper division credit completed.
30 of the last 36 hours of course work must be completed in residency at UCF.
25% of course work must be completed in residency at UCF.
A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit.

Total Semester Hours Required: 128 hrs


Transfer Notes:
Courses taken from Community Colleges do not substitute for Upper Division Courses.
Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.
EGN 1006C and EGN 1007C are required courses for incoming
freshman students only. The two credit hours for these courses may be substituted by an approved Aerospace Engineering technical elective for transfer students.

Tentative Course Schedule for Entering Freshmen
The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

### Aerospace Engineering

<table>
<thead>
<tr>
<th>Semester</th>
<th>128 semester hours required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>14</td>
</tr>
<tr>
<td>ENC 1101 English Comp I</td>
<td>3</td>
</tr>
<tr>
<td>&quot;CHS 1440 Chem for Eng or</td>
<td>4</td>
</tr>
<tr>
<td>CHM 2045C w/lab</td>
<td>2</td>
</tr>
<tr>
<td>MAC 2311 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>EGN 1000C Intro to Eng Prof</td>
<td>1</td>
</tr>
<tr>
<td>EGN 1111C Eng Comp Graphics</td>
<td>2</td>
</tr>
<tr>
<td><strong>Summer</strong></td>
<td></td>
</tr>
<tr>
<td>MAC 2313 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>EMA 3706 Struct &amp; Prop of Aerospace Mat'l</td>
<td>3</td>
</tr>
<tr>
<td>*Social Foundations</td>
<td>3</td>
</tr>
<tr>
<td><strong>SECOND YEAR</strong></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>13</td>
</tr>
<tr>
<td>&quot;Historical Foundations</td>
<td>3</td>
</tr>
<tr>
<td>MAP 2302 Diff Equations</td>
<td>3</td>
</tr>
<tr>
<td>*PHY 2049 Phys Eng II w/lab</td>
<td>4</td>
</tr>
<tr>
<td>EGN 3310 Eng Anal - Statics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Summer</strong></td>
<td></td>
</tr>
<tr>
<td>*ECO 2013 or 2023 Macro or Micro</td>
<td>3</td>
</tr>
<tr>
<td>* Historical Foundations</td>
<td>3</td>
</tr>
<tr>
<td>STA 3032 Prob &amp; Stats/Engrs</td>
<td>3</td>
</tr>
<tr>
<td><strong>THIRD YEAR</strong></td>
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</tr>
<tr>
<td>Fall</td>
<td>14</td>
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<tr>
<td>EML 3304C Model Meth's MMAE</td>
<td>3</td>
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<tr>
<td>EAS 3010 Fund of Aerospace Flight</td>
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<tr>
<td>EAS 3800C Aero Eng Msr</td>
<td>2</td>
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<tr>
<td>Science Foundation</td>
<td>3</td>
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<tr>
<td>EAS 4200 Flight Structures</td>
<td>3</td>
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<tr>
<td><strong>FOURTH YEAR</strong></td>
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</tr>
<tr>
<td>Fall</td>
<td>12</td>
</tr>
<tr>
<td>EML 4312C Feedback Control</td>
<td>3</td>
</tr>
<tr>
<td>EAS 4105 Flight Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>EAS 4134 High-Spd Aerodyn</td>
<td>3</td>
</tr>
<tr>
<td>EAS 4700C Aero Design I</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>EGN 4472C Interdisciplinary Design I</td>
<td>3</td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Students should view the MMAE website (<a href="http://www.mmae.ucf.edu">www.mmae.ucf.edu</a>) or consult with the MMAE Department in ENGR 307 for a list of approved technical electives and for the terms when specific courses of this type are to be offered. Students should check with MMAE Associate Chairman each semester to ensure they are making satisfactory progress toward their degree.</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Aerospace engineering students must earn at least 32 hours in resident at UCF.</td>
<td></td>
</tr>
</tbody>
</table>

### IMPORTANT NOTICE

- Certain courses required for this major serve as key prerequisites or are offered in specific terms. Any deviation from the four-year plan should be discussed with an academic advisor. Failure to take courses as listed may result in a delay in the date of your graduation.
- Caution must be taken to ensure that you take courses in a proper sequence regarding prerequisites.
- If you do not have a higher level programming language background you must take a course in this area prior to taking EML 3034C (C* or FORTRAN recommended).
- If you are not ready to begin the calculus sequence upon entry to the Aerospace Engineering curriculum it is imperative that you meet with your advisor to plan a personalized program of study.
- Mathematics and physics are cornerstones of a quality engineering program and it is important for your academic career that you proceed accordingly.

### Integrated Accelerated BS/MS Degree Program
The Mechanical, Materials, and Aerospace Engineering Department offers the Accelerated BS/MS program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

### ANIMATION TRACK in ART
See Art - Animation Track

### ANTHROPOLOGY (B.A.)
College of Sciences
Department of Sociology and Anthropology, PH 403, 407-823-2227, http://www.cas.ucf.edu/soc_anthro
E-mail: anthropology@ucf.edu
Contact: A. Chase, 407-823-2227

The Anthropology major results in broad holistic understanding of humans and the human condition, both past and present. Students study all subfields of Anthropology: Archaeology, Cultural Anthropology, Linguistics, and Physical Anthropology. Students with sufficient course background may participate in ongoing archaeological excavations associated with the Maya culture in the Central American country of Belize.

### Admission Requirements:
- none
- Degree Requirements:
  - UCF students who change degree programs and select this major must adopt the most current catalog.
  - Departmental Residency Requirement: at least 30 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Anthropology Department.
  - Students must maintain a grade of "C" (2.0) or better in all courses used for the major.
  - Co-op or internship credit cannot be used in the major without prior approval.
  - Students should consult with a departmental advisor.
  - Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

### 1. UCF General Education Program (36 hrs)
- Communication Foundations 9 hrs
- Cultural and Historical Foundations 9 hrs
- Mathematical Foundations 9 hrs
- Social Foundations 6 hrs
  1. Select a listed course 3 hrs
  2. Select ANT 2000 3 hrs
  3. Select a listed course 3 hrs

### 2. Common Program Prerequisites (0 hrs)
- ANT 2000* General Anthropology
- ANT 2511* The Human Species
- *See Transfer Notes for possible substitutes

### 3. Core Requirements: Lower Level (6 hrs)
- ANT 2100 Arch & the Rise of Human Cult 3 hrs
- ANT 2410 Cultural Anthropology 3 hrs

### 4. Core Requirements: Upper Level (12 hrs)
- All students are required to take the following upper level courses in the four subdisciplines of Anthropology:
  - ANT 3145 Archaeology of Complex Societies 3 hrs
  - ANT 3640 Language and Culture 3 hrs
5. Area Study (3 hrs)

All students are required to take one of the following courses:

- ANT 3158: Florida Archaeology
- ANT 3163: Mesoamerican Archaeology
- ANT 3164: Ancient Incas
- ANT 3168: Maya Archaeology
- ANT 3311: Indians of the SE US
- ANT 3312: Ethnology of North American Indians
- ANT 3313: Indians of N American High Plains
- ANT 3314: Indians of the Northeast Woodlands
- ANT 3318: Indians of the Northwest Coast
- ANT 4320: Indians of the Southwest
- ANT 3319: The Anthropology of Diaspora
- ANT 3332: Peoples and Culture of Latin America
- ANT 3430: Caribbean Cultures
- ANT 3338: Life and Death in Ancient Egypt
- ANT 3363: Anthropology of Japan
- ANT 4144: Prehistory of North America
- ANT 4153: North American Archaeology
- ANT 4352: African Societies and Cultures
- ANT 4354: Postcolonial Africa
- ANT 4308: Gender Issues in Latin America

6. Restricted Electives (18 hrs)

Six other Anthropology courses must be taken to complete the major. These may include other area study courses (see 5. above) or any other Anthropology courses that may be offered (see below):

- ANT 4101: Archaeological Sciences
- ANT 3115: Ethnographic Method and Theory
- ANT 3142: Old World Prehistory
- ANT 4184: Mortuary Archaeology
- ANT 3212: Peoples of the World
- ANT 3241: Magic, Ritual, and Belief
- ANT 3245: Native American Religions
- ANT 3252: Rural Society
- ANT 3273: Law and Culture
- ANT 3302: Sex, Gender, and Culture
- ANT 3316: Black/Semiole Relationships
- ANT 4438: Anthropology of Tourism
- ANT 4467: Nutritional Anthropology (or ANG 5467)
- ANT 3541: Biobehavioral Anthropology
- ANT 3550: Primatology
- ANT 3701: Applied Anthropology
- ANT 4702: Culture, Power, and Development
- ANT 4802: Ethnographic Field Methods
- ANT 4180C: Seminar in Laboratory Analysis
- ANT 4266: Economic Anthropology
- ANT 4462: Medical Anthropology
- ANT 4516: Human Biological Diversity
- ANT 4521C: Forensic Anthropology
- ANT 4525C: Human Osteology
- ANT 4528C: Advanced Forensic Anthropology
- ANT 824: Advanced Archaeological Field Work
- ANG 5165: Field Research in Maya Studies
- ANG 5166: Problems of Maya Archaeology
- ANG 5167: Maya Hieroglyphs
- ANG 5228: Maya Iconography

Departmental Exit Requirements:
- A grade of "C" (2.0) or better in all courses used for the major
- Computer competency met by ANT 2100
- Students will be required to take a standard exit exam.

8. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement.

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. These courses may be outside of the department.

10. University Minimum Exit Requirements

- A "C" (2.0) GPA in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Sociology, Graduate Certificate in Maya Studies

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- ANT 2000: any ANT course. However, this course is a prerequisite and must be taken regardless.
- ANT 2511: any ANT course. However, ANT 2511 will need to be taken for the major.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Freshman Year

**Fall**
- ANT 2000: General Anthro 3
- ENC 1102: Composition II 3
- ARH 2050: Culture & Civilization 3

**Spring**
- ANT 4034: History of Anthropological Thought 3
- STA 2014C: Statistical Methods 3
- ANG 5228: Maya Iconography 3

### Sophomore Year

**Fall**
- REL 2300: Religion & Society 3
- ANT 2410: Cultural Anthropology 3
- ANT 4586: Human Origins 3

**Spring**
- ANT 3313: Indians of N American High Plains 3
- ANT 3314: Indians of the Northeast Woodlands 3
- ANT 3318: Indians of the Northwest Coast 3

### Junior Year

**Fall**
- ANT 2100: Ethnography 3
- ANT 3142: Old World Prehistory 3
- ANT 4586: Human Origins 3

**Spring**
- ANT 3302: Sex, Gender, and Culture 3
- ANT 3316: Black/Semiole Relationships 3
- ANT 4438: Anthropology of Tourism 3

### Senior Year

**Fall**
- ANT 3212: Peoples of the World 3
- ANT 3241: Magic, Ritual, and Belief 3
- ANT 4352: African Societies and Cultures 3

**Spring**
- ANT 3245: Native American Religions 3
- ANT 3252: Rural Society 3
- ANT 3354: Gender Issues in Latin America 3

### ART (B.F.A.)

**College of Arts and Humanities**


**E-mail:** art@ucf.edu

J. Chavda, 823-2676

The BFA degree is recommended for studio art majors who plan to attend graduate school.

**Note:** Although the department maintains a small computer lab for student use, Graphic Design majors must have continual access to a laptop computer. Contact the department for the minimum hardware and software specifications.
Admission Requirements

- All junior level students in this program (except Graphic Design students) must satisfactorily complete the mandatory ART 3950 - Portfolio Review before enrolling in upper division ART courses. The Spring review takes place in the first week of March. The Fall review takes place in the first week of October.
- Graphic Design students must satisfactorily complete the mandatory Graphic Design Portfolio Review for admission to this restricted access program, to be admitted in the following Fall. The application deadline is April 1 for Fall admission.
- Students unable to satisfactorily complete either above requirement, ART 3950 - Portfolio Review or the Graphic Design Portfolio Review, may continue in the Art Department in the Art History track.
- Students may enter the BFA Program as early as the first semester of their junior year. If they have a 3.0 overall average in ART courses, they are automatically accepted. Students who do not meet these requirements may petition the BFA committee for acceptance.
- "D" grades from other institutions do not meet departmental requirements.
- Note: Individual portfolio reviews are not possible due to the large number of applicants to the program.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Art. Nine of these must be in an area of specialization.
- BFA students must maintain a 3.0 GPA in all ART courses.
- Co-op credit cannot be used in this major.
- Students should consult with a departmental advisor in their 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
     Select a course from group B.1
     Select ARH 2050
     Select ARH 2051
   - B. Cultural and Historical Foundations
     Prefer MGF 1106 (may substitute a higher level math)
     Prefer STA 1060C
   - C. Mathematical Foundations
     ARH 2050
     ARH 2051
     GDA 2101C
     ART 3950 Portfolio Review
   - E. Science Foundations

2. Common Program Prerequisites (18 hrs)
   - ART 2203C* Design Fundamentals 2-D
   - ART 2203C* Design Fundamentals 3-D
   - ART 2300C* Drawing Fundamentals I
   - ART 2301C* Drawing Fundamentals II
   - ARH 2050 History of Western Art I GEP
   - ARH 2051 History of Western Art II GEP
   - GRA 2101C* Intro to Computer Art
   - Any ART prefix, studio, or media courses at the 2000-4000 levels

3. Core Requirements (9 hrs)
   - ART 2820 Art as Interface
   - ARH 2050 Survey of Non-Western Art
   - Any ART prefix, studio, or digital art courses at the 2000-4000 levels
   - ART 3950 Portfolio Review

4. Restricted Electives (42 hrs)
   - Select six upper division courses from one area: (classes with an asterisk may be repeated for credit)
     Ceramics (ART 3760C, ART 3764C, ART 4783C*)
     Drawing (ART 3322C, ART 4320C*)
     Drawing/Printmaking Combination (ART 3322C, ART 4320C*, ART 3433C, ART 4402C*)
     Drawing/Illustration Combination (ART 3322C, GRA 3151C, ART 4320C*, GRA 4154C*)
   - a. Specialization:
     - 18 hrs

5. Departmental Exit Requirements (3 hrs)
   - ART 4835 BFA Exhibits/Seminar required, except for Graphic Design specialization (BFA Exhibit Seminar is only offered during Spring Semester)
   - Achieve at least a "B" GPA (3.0) overall in courses within the major
   - Each senior is required to submit a portfolio of representative work in the student's specialization, for review and approval by faculty, during their last semester of matriculation toward the degree
   - Computer Competency met by STA 1060C or GRA 2101C

6. Foreign Language Requirements (0-8 hrs)
   - Met by graduation requirement
   - Admission:
     - Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.
   - Graduation:
     - Proficiency equivalent to one year of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives (variable)
   - Select from at least three of the following areas, excluding the area of specialization.

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Art History, Studio Art (BA), Art Education, Animation, Digital Media

Related Minors: Partners in Visual Art Education

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- GRA 2101C*: A student may substitute any three hour digital art course; however, GRA 2101C is a prerequisite for subsequent ART courses and will need to be taken for the major.

Suggested Plan of Study:
- One of numerous possible plans of study. See program description for all requirements.

*may be repeated for credit
Students must submit a satisfactory drawing portfolio to be admitted to the Animation BFA program. The Animation Portfolio Review submission deadline is September 15 for admission in the following Spring semester. The Animation Portfolio Review to be admitted to this restricted access program. The Animation Portfolio Review submission deadline is September 15 for admission in the following Spring semester.

Sophomore Year

Fall

COM 1000* req# 1A3-GEP

Spring

ART 2000* req# 1D2-GEP

B. Cultural and Historical Foundations

Select a course from group B.1

Select ARH 2050

Select ARH 2051

Graduation:

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below “C” (2.0) in lower level courses do not satisfy major requirements.
- Co-op credit cannot be used in the major.
- “D” grades from other institutions do not meet departmental requirements. Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken within the UCF Art and Film programs. Nine of these must be in Animation specialization.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

A. Communication Foundations

9 hrs

C. Mathematical Foundations

3 hrs

F. Science Foundations

6 hrs

2. Common Program Prerequisites (18 hrs)

A. Communication Foundations

9 hrs

B. Cultural and Historical Foundations

3 hrs

D. Social Foundations

6 hrs

C. Mathematical Foundations

3 hrs

E. Science Foundations

6 hrs

3. Core Requirements (12 hrs)

ART 2820

Any two upper level Art or Film History courses

9 hrs

Any two upper level Art or Film History courses

6 hrs

4. Animation Upper Division Courses (18 hrs)

ART 3643C

Any two upper level Art or Film History courses

3 hrs

Any two upper level Art or Film History courses

6 hrs

5. Restricted Electives

Elective in Art (variable)

15 hrs

Select five courses; two of which may be lower division

Select from at least three of the following areas, excluding the area of specialization:

- Ceramics, Drawing, Drawing/Printmaking, Illustration, Painting, Photography, Printmaking, Sculpture, and Special Topics Studio Courses.

6. Departmental Exit Requirements

- ART 4971 Thesis

3 hrs

- Achieve at least a 3.0 average in required art and film courses

- Computer Competency met by CGS 1060C or GRA 2101C

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.
### Acceptable Substitutes

For common program prerequisites if taken prior to transferring to UCF:

- **GRA 2101C**: A student may substitute any three-hour digital art course; however, GRA 2101C is a prerequisite for subsequent art courses and will need to be taken for the major.

### Suggested Plan of Study

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Freshman Year

**Fall**
- ARH 2050 Hist of West Art I 3 hrs
- ENC 1101 Composition I 3 hrs
- HUM 2210* req. # 1B1-GEP 3 hrs
- MGF 1105* req. # 1C1-GEP 3 hrs
- ART 2820 Art as Interface 3 hrs

**Spring**
- ARH 2051 Hist of West Art II GEP/3 hrs
- ENC 1102 Composition II 3 hrs
- ART 2201C Design Fundamentals 2-D 3 hrs
- ART 2820 Art as Interface 3 hrs

### Sophomore Year

**Fall**
- COM 1000* req. # 1A1-GEP 3 hrs
- POS 2041* req. # 1D2-GEP 3 hrs
- ART 2203C Design Fundamentals 3-D 3 hrs
- ART 2300C Drawing Fundamentals I 3 hrs
- GRA 2101C Intro to Comp Art 3 hrs

**Spring**
- BSC 1020* req. # 1E2-GEP 3 hrs
- CHM 1020* req. # 1E2-GEP 3 hrs
- ART 2051 History of Western Art II 3 hrs
- ART 2050 History of Western Art I 3 hrs
- FIL 3286C Intro to Animation 3 hrs

### Junior Year

**Fall**
- ART 3161* req. # 3-Core 3 hrs
- GRA 3151C* req. # 3-Core 3 hrs
- ART 3643C Dig. Effects Compstmt 3 hrs
- PGE 2401C* req. # 5-ResEl 3 hrs
- SPN 1120* req. # Lang/Elect 4 hrs

**Spring**
- FIL 3287C Int Animation 3 hrs
- ART 3410 Hist of Ani Films I 3 hrs
- ART 3322C* req. # 5-ResEl 3 hrs
- ART 4320C* req. # 5-ResEl 3 hrs
- SPN 1121* req. # Lang/Elect 4 hrs

### Senior Year

**Fall**
- ARH 2500 Hist of West Art 3 hrs
- FIL 4288C Advanced Animation 3 hrs
- PGE 3410C* req. # 5-ResEl 3 hrs
- Elective* Check restrictions 3 hrs

**Spring**
- ART 2000* req. # 1D2-GEP 3 hrs
- FIL 4289C Animation Workshop 3 hrs
- PGE 4420C* req. # 5-ResEl 3 hrs
- ARH 4911 Senior Thesis 3 hrs
- Elective* Check restrictions 3 hrs

### Acceptable Substitutes

Courses transferred from private and out-of-state schools, and in-state senior institutions must be evaluated for equivalency credit. The student must provide all supporting information.
6. Foreign Language Requirements (0-11 hrs)

Admission: Met by graduation requirement.

Graduation: Proficiency equivalent to four semesters of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures in Spanish, French or Italian preferred, although other languages are acceptable with prior consent of advisor. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

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

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Studio Art (BA, BFA), Art Education, Animation, Digital Media.

Related Minors: Studio Art, Partners in Visual Art Education

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall
ARH 2050 His of West Art I 3
ENC 1101 Composition I 3
HUM 2110 req* 1BL-GEPl 3
MGF 1106 req* 1CL-GEPl 3
ARH elective 3

Spring
ARH 2051 His of West Art II 3
ENC 1102 Composition ll 3
STA 1060 Stat Using Excel 3
Elective* Check restrictions 3

Sophomore Year

Fall
COM 1000 req* 1A3-GEPl 3
ART 2203C* Design Fundamentals 3-D 3
ART 2300C Drawing Fundamentals I 3
ENC 3311 Adv Exp Writing 3

Spring
ART 2301C* Design Fundamentals 2-D 3
ART 2301C* Design Fundamentals 2-D 3
ART 2300C Drawing Fundamentals I 3
ENH 3110* req* 1CL-GEPl 3

Junior Year

Fall
ARH 4310 Italian Renaiss Art 3
ARH 4450 20th Century Art 3
ART 3710C req* 4c-ResEl 3
SPN 1121 req* Lang/Elect 4

Spring
ARH 4430 19th Century Art 3
ART 4800 Thry Critic of Vis 3
ART 3711C req* 4c-ResEl 3
SPN 2200 req* Lang/Elect 3

Senior Year

Fall
ARH 4350 req* 4b-ResEl 3
ARH 4912 Senior Thesis 3
Elective* Check restrictions 3

Spring
ART 4170 req* 4c-ResEl 3
ARH 4960 Comprehensive exam 1
Elective* Check restrictions 3
Elective* Check restrictions 3

ART - STUDIO TRACK (B.A.)

College of Arts and Humanities

Art Department VAB 117, 407-823-2676
http://www.art.ucf.edu/
E-mail: art@ucf.edu

Note: Although the department maintains a small computer lab for student use, Graphic Design and Animation majors must have continual access to a laptop computer. Contact the department for the minimum hardware and software specifications.

Degree Requirements

- All junior level students in this program (except Graphic Design students) must satisfactorily complete the mandatory ART 3950 - Portfolio Review before enrolling in upper division ART courses.
- The Spring review takes place the first week of March. The Fall review takes place the first week of October.
- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below "C" (2.00) in lower level ART courses do not satisfy major requirements
- Co-op credit cannot be used in the major
- Students should consult with a departmental advisor in their specialization

- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Art. Nine of these hours must be in an area of specialization.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations
   - Select a course from group B.1 3 hrs
   - Select ARH 2050 The History of Western Art I 3 hrs
   - Select a course from either group B.1 or B.2 3 hrs
C. Mathematical Foundations
   - Prefer MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
   - Prefer STA 1060C Statistics Using Excel 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites (21 hrs)

ART 2201C Design Fundamentals 2-D 3 hrs
ART 2203C* Design Fundamentals 3-D 3 hrs
ART 2300C Drawing Fundamentals I 3 hrs
ART 2301C* Drawing Fundamentals II 3 hrs
ARH 2050 The History of Western Art I GEP 3 hrs
ARH 2051 The History of Western Art II 3 hrs
GRA 2101C Intro to Computer Art 3 hrs
ART 2XXX-4XXX any ART prefix, studio or media course *See Transfer Notes for possible substitutes 3 hrs

3. Core (6 hrs)

ART 2620 Art As Interface 3 hrs
ARH 2500 History of Non-Western Art 3 hrs
ART 3950 Portfolio Review 0 hrs

4. Restricted Electives (27 hrs)

Specialization:

Select nine upper division courses from at least three areas:

Art History (any upper level ARH courses)
Ceramics (ART 3760C, ART 4783C)
Drawing and Printmaking (ART 3322C, ART 3433C, ART 4230C, ART 4402C*) Illustration (GRA 3151C, GRA 4154C*)
Painting (ART 3504C, ART 4505C*)
Photography (PGY 2401C, PGY 4420C*, PGY 4440C)
Sculpture (ART 2701C, ART 4710C*)
The Artist Book (ART 4173)
Type & Design (GRA 3133C)
*may be repeated for credit

5. Departmental Exit Requirement

- Achieve at least a "C" GPA (2.0) overall in courses within
## UCF Degree Programs

### 6. Foreign Language Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Computer Competency met by STA 1060C or GRA 2101C</td>
<td>-</td>
</tr>
</tbody>
</table>

### Admission:
Met by graduation requirement

### Graduation:
Proficiency equivalent to one year of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

### 7. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department. (A maximum of six hours of Independent Study, Practicum, and Internship permitted.)

### 8. University Minimum Exit Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>- A 2.0 UCF GPA</td>
<td>-</td>
</tr>
<tr>
<td>- 60 semester hours earned after CLEP awarded</td>
<td>-</td>
</tr>
<tr>
<td>- 48 semester hours of upper division credit completed</td>
<td>-</td>
</tr>
<tr>
<td>- 30 of the last 36 hours of course work must be completed in residency at UCF</td>
<td>-</td>
</tr>
<tr>
<td>- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted</td>
<td>-</td>
</tr>
<tr>
<td>- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)</td>
<td>-</td>
</tr>
</tbody>
</table>

### Total Semester Hours Required
120 hours

### Related Programs:
Art History, Studio Art (BFA), Art Education, Animation, Digital Media

### Related Minors:
Partners in Visual Art Education, Digital Media

### Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

### Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- GRA 2101C: may substitute 3 hours of any digital art course; however, GRA 2101C is a prerequisite for subsequent art courses and will need to be taken for the major

### Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Freshman Year

#### Fall
- ARH 2050 His of West Art I 3
- ENC 1101 Composition I 3
- HUM 2210* req# 181-GEPC 3
- MGF 1108* req# 1C1-GEPC 3
- ART 2920 Art as Interface 3

#### Spring
- ARH 2051 His of West Art II 3
- ENC 1102 Composition II 3
- STA 1060C Stat Using Excel 3
- ART 2201C Design Fund 2 D 3
- Elective* Check restrictions 3

### Sophomore Year

#### Fall
- COM 1000* req# 1A3-GEPC 3
- POS 2041* req# 1D1-GEPC 3
- ART 2203C Design Fund 3 D 3
- ART 2300C Drawing Fund I 3
- GRA 2101C Intro to Comp Art 3

#### Spring
- ARH 2050 His of West Art I 3
- ENC 1102 Composition II 3
- STA 1060C Stat Using Excel 3
- STA 2014C Principles of Statistics 3

### Junior Year

#### Fall
- ART 3332C* req# 4-ResElect 3
- GRA 3151C* req# 4-ResElect 3
- Elective* Check restrictions 3
- Elective* Check restrictions 3
- SPN 1120* req# Lang/Elect 4

#### Spring
- ARH 4350* req# 4-ResElect 3
- ARH 4430* req# 4-ResElect 3

### Senior Year

#### Fall

### 1. UCF General Education Program

#### A. Communication Foundations
- ENC 1101 Composition I 3
- ENC 1102 Composition II 3
- Select SPC 1600 Fundamentals of Oral Communication 3

#### B. Cultural-Historical Foundations
- Select AMH 2010 U.S. History 1492-1877 3
- Select AMH 2020 U.S. History 1877-Present 3
- Select PHI 2010 Introduction to Philosophy 3

#### C. Mathematical Foundations
- Select MGF 1106 Finite Mathematics 3
- Elective one: STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics 3

### D. Social Foundations
- Select POS 2041 American National Government 3
- Select PSY 2012 General Psychology 3

### E. Science Foundations (6 hrs)

#### A. Communications (9 hrs)
- ENC 1101 Composition I 3
- ENC 1102 Composition II 3
- Select SPC 1600 Fundamentals of Oral Communication 3

#### B. Humanities (6 hrs)
- Select AMH 2010 U.S. History 1492-1877 3
- Select AMH 2020 U.S. History 1877-Present 3
- Select PHI 2010 Introduction to Philosophy 3

#### C. Mathematics (6 hrs)
- Select MGF 1106 Finite Mathematics 3
- Elective one: STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics 3

### 2. Common Program Prerequisites (43 hrs)

#### A. Communications
- ENC 1101 Composition I 3
- ENC 1102 Composition II 3
- Select SPC 1600 Fundamentals of Oral Communication 3

#### B. Humanities
- Select AMH 2010 U.S. History 1492-1877 3
- Select AMH 2020 U.S. History 1877-Present 3
- Select PHI 2010 Introduction to Philosophy 3

#### C. Mathematics
- Select MGF 1106 Finite Mathematics 3
- Elective one: STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics 3

#### D. Social Science/History
- Select POS 2041 American National Government 3
- Select PSY 2012 General Psychology 3

#### E. Science
- Select PSC 1121 Physical Science 3
- Elective one: ANT 2511 The Human Species or BSC 1005 Biological Principles 3

Note: See laboratory component under Section 2.
11. Total Program Semester Hours Required
127 hrs

Consult with your advisor and review your degree audit for more recent information.

12. Recommended Four-Year Sequence of Courses

Freshman Year
- Fall (15 hrs)
  - EDF 2005 3 hrs
  - EDG 2701 3 hrs
  - EME 2040 3 hrs
- Spring (12 hrs)
  - ENC 1101 3 hrs
  - EDG 2701 3 hrs
  - MGF 1106 3 hrs
  - ENC 1102 3 hrs
  - ARH 2050 3 hrs
  - MAC 1105 3 hrs
  - PSY 2012 3 hrs
- Summer (6 hrs)
  - EME 2040 3 hrs
  - SPC 1600 3 hrs

Sophomore Year
- Fall (15 hrs)
  - AMH 2010 3 hrs
  - ART 2201C 3 hrs
  - ART 2203C 3 hrs
  - BSC 1005 3 hrs
  - ART 2201C 3 hrs
  - STA 2014C 3 hrs
- Spring (16 hrs)
  - PHI 2010 3 hrs
  - POS 2041 3 hrs
  - TSL 4080 3 hrs
  - ARE/ARH/ART/PGY 3/4XXX 3 hrs
  - ESE 4943 12 hrs

Junior Year
- Fall (15 hrs)
  - STA 2014C 3 hrs
  - EDF 4214 3 hrs
  - EDG 4323 3 hrs
  - TSL 4080 3 hrs
  - ART 2300C 3 hrs
  - ART 2301C 3 hrs
- Spring (15 hrs)
  - RED 4043 3 hrs
  - ART 2500C 3 hrs
  - EDG 2701 3 hrs
  - EDG 2701 3 hrs
  - ESE 3943 12 hrs

Senior Year
- Fall (12 hrs)
  - ERE 356 3 hrs
  - ARE 4356 3 hrs
  - ESE 3940 3 hrs
  - ESE 4943 12 hrs
- Spring (12 hrs)
  - ESE 3940 3 hrs
  - ESE 3940 3 hrs
  - ERE 356 3 hrs
  - EDG 4323 3 hrs
  - TSL 4080 3 hrs
  - ART 2201C 3 hrs
  - ART 2203C 3 hrs
  - ART 2500C 3 hrs
  - Restricted elective (ARE/ARH/ART/PGY 3/4XXX) 3 hrs

Summer (3 hrs)
- AST 2002 3 hrs
- EDF 4214 3 hrs
- TSL 4080 3 hrs
- ARE/ARH/ART/PGY 3/4XXX 3 hrs

BIOLOGY (B.S.)

College of Sciences

Biology Department, BL 301, 407-823-2141
http://www.cas.ucf.edu/biology
E-mail: biology@ucf.edu

Contact: F. Loguice, 407-823-2141

Admission Requirements

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- No credit by exam (TSD, Military credit) may be used for the major.
- Co-op or internship credit cannot be used in this major
- No more than 4 hours of BSC 4422L, BSC4937L, Independent Study, Directed Research, or similar types of credit may be applied toward major requirements.
- Departmental Residency Requirement consists of at least 22 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Biology Department.
- Students seeking a double major must satisfy the requirements
UCF Degree Programs

for both majors and must take no fewer than 40 semester hours of upper division restricted elective course work appropriate to the combined areas of specialization in the two majors.

Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 hours.

1. UCF General Education Program (36-3 hrs)
(Note: Certain courses must be selected in the GEP for this major, bringing the total GEP hours to more than 36.)

A. Communication Foundations
1. Select ENC 1101 and ENC 1102
2. Prefer SPC 1016

B. Cultural and Historical Foundations
C. Mathematical Foundations
1. Select MAC 2311 or MAC 2241
2. Select STA 2023

D. Social Foundations
E. Science Foundations
1. Select CHM 2045C
2. Select BSC 2010C

2. Common Program Prerequisites (16 hrs)

BSC 2010C* Biology I
GEP
BSC 2011C* Biology II
GEP

Select one Calculus course
MAC 2311* Calculus w/ Analy Geometry I
GEP
MAC 2441 Calculus for Life Sciences

STA 2023* Statistical Methods I
GEP

CHM 2045C* Chem Fund I
GEP
CHM 2046 & L Chem. Fund II & lab
GEP

Select one Physics sequence with labs* 8 hrs

PHY 2053C College Physics I
or
PHY 2048 & L Physics Engr. & Sci. I & Lab

PHY 2049 & L Physics Engr. & Sci. II & Lab

*See Transfer Notes for possible substitutes

CHM 2040 plus CHM 2041 can substitute for CHM 2045C

3. Core requirements (21-23 hrs)

Select one Chemistry sequence
CHM 2110 Organic Chem. I, and
CHM 2111 & L Organic Chem. II & lab
or
CHM 31020 Analytical Chemistry, and
CHM 2205 Intro Organic & Biochemistry

PCB 3044 Ecology
GEP
PCB 3063 Genetics
GEP
PCB 3023 Molecular Cell Biology
GEP

PCB 4683 Population Biol & Evolution
GEP

(Note: Students planning on entering professional or graduate school should take Biochemistry (BCH 4053, BCH 4054) as well as additional Calculus courses. Students are urged to consult their departmental advisor.)

4. Upper Division Restricted Electives (22 hrs)

Courses must be selected from the groupings listed below.

Students must complete at least one course dealing exclusively with animals (marked ‘a’) and one course dealing exclusively with plants (marked ‘b’).

At least three credit hours from each group must be completed.

At least 10 hours of the Upper Division Restricted electives must be taken within the UCF Biology Department.

Transferred courses must be at a 3000 level or higher, and be evaluated by a departmental advisor, in order to count as an Upper Division Restricted Elective.

Courses at the 5000 level are only open to seniors and beginning graduate students.

4.1 Form/Function (minimum of one lecture course)

BCH 4053 Biochemistry I*
3 hrs
BCH 4054 Biochemistry II
3 hrs
b BOT 4223C Plant Anatomy
4 hrs
b BOT 4303C Plant Kingdom
5 hrs
b BOT 4503 Plant Physiology
3 hrs
BSC 4101 History of Biology
3 hrs

a BCH 4454 Research in Animal Physiology
2 hrs
PCB 3063 Genetics Laboratory
1 hr
PCB 3233 Immunology
3 hrs
PCB 3024L Molecular Cell Biology Laboratory
2 hrs
PCB 3703C Human Physiology
4 hrs
PCB 4514 Genetics II
3 hrs
PCB 4524 Molecular Biology II
3 hrs
a PCB 4723 Animal Physiology
4 hrs
PCB 5083L Population Bio and Evolution Lab
1 hr
PCB 5107C Adv Cell Biology
4 hrs
b PCB 5108 Concepts in Plant Cell Biology
4 hrs
a PCB 5265C Adv Develop Biology
4 hrs
PCB 5556 Cons. Genetics
3 hrs
PCB 5665C Human Genetics
4 hrs
a ZOO 3713C Comparative Vert Anatomy
5 hrs
ZOO 3733C Human Anatomy
4 hrs
a ZOO 4603C Embryology/Development
5 hrs
a ZOO 4753C Animal Behavior
4 hrs

2.0 Environmental (minimum of one lecture course)
b BOT 3152C Local Flora
3 hrs
b BOT 3800 Ethnobotany
3 hrs
b BOT 4156C Florida Wildflowers
4 hrs
b BOT 4686C Conservation of Native Plants
4 hrs
b BOT 5623C Plant Geography & Ecology
4 hrs
BSC 4312C Marine Biology
4 hrs
PCB 3044L Ecology Laboratory
1 hr
PCB 3304C River Ecology
4 hrs
PCB 3355C Tropical Marine Biology
2 hrs
PCB 3442 Florida Aquatic Ecology
3 hrs
PCB 4302C Physicochemical Limnology
4 hrs
PCB 4303C Biological Limnology
4 hrs
PCB 5045C Conservation Biology
4 hrs
PCB 5328C Landscape Ecology
4 hrs
PCB 5326C Ecosystems of Florida
5 hrs
PCB 5485 Models in Ecology
3 hrs
PCB 5xxx Methods in Experimental Ecology
3 hrs
PCB 5xxx Tropical Biology Research and Conservation
3 hrs
a ZOO 4513 Animal Behavior
3 hrs
a ZOO 5520 Behavioral Ecology
3 hrs
a ZOO 5813 Zoogeography
4 hrs
a ZOO 5891C Fisheries Management
4 hrs
a ZOO 5893L Repro Mgt Zool Env
1 hr

4.3 Systematic (minimum of one lecture course)
b BOT 4713C Plant Taxonomy
5 hrs
b BOT 5485C Terrestrial Cryptogams
3 hrs
b BSC 5xxx Advanced Entomology
4 hrs
b ENY 4004C General Entomology
4 hrs
MCB 3020C General Microbiology
5 hrs
PCB 3301C Aquatic Biology
4 hrs
a ZOO 4205C Bio & Ecol of Metazoan Inverts
4 hrs
a ZOO 4310C Vertebrate Evolution & Ecol
4 hrs
a ZOO 5456C Ichthyology
4 hrs
a ZOO 5463C Herpetology
4 hrs
a ZOO 5475C Ornithology
4 hrs
a ZOO 5486C Mammalogy
4 hrs

Additional courses (e.g., BSC 4422L and BSC 5408L) may be used to meet a group requirement with approval of the Curriculum Committee via petition.

5. Departmental Exit Requirements

A minimum GPA of 2.0 in all UCF courses taken in the Common Program Prerequisites, the Biology Core and the Upper Division Restricted Electives.

To demonstrate Computer Competency students are expected to do one) check and maintain their campus electronic mail account and 2) be capable of locating, viewing, and retrieving class and research information on the World Wide Web.

Students will be required to take a comprehensive exam in biology during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring.

Biology majors should not take any courses required in the major as a transient student at a community college.

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

8. UCF University Minimum Exit Requirements
A 2.0 UCF GPA
### Degree Requirements

**Biology Department, BL 301, 407-823-2141**

**E-mail: biology@ucf.edu**

Contact: F. Logiudice, 407-823-2141

Students who hope to gain admission to a professional school (medical, dental, optometry, veterinary medicine, etc.) can meet the admission requirements while pursuing a Biology degree. The following track lists courses that will meet both sets of requirements.

**Admission Requirements**

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- No credit by exam (TSD, Military credit) may be used for the major.
- **Notice:** Professional schools do not accept AP or IB credit.
- Co-op or internship credit cannot be used in the major.
- No more than four hours of BSC 4422L, BSC4937L, 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 in the two majors.
- Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 hours.

### 1. UCF General Education Program (36+3 hrs)

- **A. Communication Foundations**
  - 1. Select ENC 1101 or ENC 1102 6 hrs
  - 2. Prefer SPC 1001 3 hrs
- **B. Cultural and Historical Foundations**
  - 9 hrs
- **C. Mathematical Foundations**
  - 1. Select MAC 2311 or MAC 2241 4 hrs
  - 2. Select STA 2023 3 hrs
- **D. Social Foundations**
  - 6 hrs
- **E. Science Foundations**
  - 1. Select CHM 2211 or MAC 2241 4 hrs
  - 2. Select BSC 2010C 4 hrs

### 2. Common Program Prerequisites (16 hrs)

- Select one Calculus course
  - **MAC 2311**
  - **MAC 2311** 4 hrs
- **BSC 2010C** Biology I
- **BSC 2011C** Biology II
- Select one Calculus course
  - **MAC 2311**
  - **MAC 2241** 4 hrs
- **A. Communication Foundations**
  - 1. Select ENC 1101 and ENC 1102 6 hrs
  - 2. Prefer SPC 1001 3 hrs
- **B. Cultural and Historical Foundations**
  - 9 hrs
- **C. Mathematical Foundations**
  - 1. Select MAC 2311 or MAC 2241 4 hrs
  - 2. Select STA 2023 3 hrs
- **D. Social Foundations**
  - 6 hrs
- **E. Science Foundations**
  - 1. Select CHM 2211 or MAC 2241 4 hrs
  - 2. Select BSC 2010C 4 hrs

### 3. Core requirements (21 hrs)

- **A. Communication Foundations**
  - 1. Select ENC 1101 and ENC 1102 6 hrs
  - 2. Prefer SPC 1001 3 hrs
- **B. Cultural and Historical Foundations**
  - 9 hrs
- **C. Mathematical Foundations**
  - 1. Select MAC 2311 or MAC 2241 4 hrs
  - 2. Select STA 2023 3 hrs
- **D. Social Foundations**
  - 6 hrs
- **E. Science Foundations**
  - 1. Select CHM 2211 or MAC 2241 4 hrs
  - 2. Select BSC 2010C 4 hrs

### 4. Restricted Electives (Suggested) (22 hrs)

- Student must complete at least one course dealing exclusively...
UCF Degree Programs

with animals (marked 'a') and one course dealing exclusively with plants (marked 'b').

- At least 10 hours of the Upper Division Restricted electives must be taken within the UCF Biology Department.
- Transferred courses must be at a 3000 level or higher.
- The following suggestions are appropriate for many professional schools. Consult a departmental advisor and be cognizant of the professional school's requirements. For complete listing, see Biology B.S. degree program.

### 4.1 Form/Function

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BCH 4053</td>
<td>Biochemistry I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>BCH 4054</td>
<td>Biochemistry II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>a BSC 4454</td>
<td>Research in Animal Physiology</td>
<td>2 hrs</td>
</tr>
<tr>
<td>PCB 3063L</td>
<td>Genetics Laboratory</td>
<td>1 hr</td>
</tr>
<tr>
<td>PCB 3024L</td>
<td>Molecular Cell Biology Laboratory</td>
<td>2 hrs</td>
</tr>
<tr>
<td>PCB 3233</td>
<td>Immunology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PCB 4514</td>
<td>Genetics II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PCB 5665C</td>
<td>Human Genetics</td>
<td>4 hrs</td>
</tr>
<tr>
<td>a PCB 4723</td>
<td>Animal Physiology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>a ZOO 3713C</td>
<td>Comparative Vert Anatomy</td>
<td>5 hrs</td>
</tr>
<tr>
<td>a ZOO 4603C</td>
<td>Embryology/Development</td>
<td>5 hrs</td>
</tr>
<tr>
<td>a ZOO 4753C</td>
<td>Vertebrate Histology</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

### 4.2 Environmental

**b** BOT 3800 Ethnobotany 3 hrs

### 4.3 Systematic

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCB 3020C</td>
<td>General Microbiology</td>
<td>5 hrs</td>
</tr>
<tr>
<td>a ZOO 4205C</td>
<td>Bio &amp; Ecol of Metaizoan Inverts</td>
<td>4 hrs</td>
</tr>
<tr>
<td>a ZOO 4310C</td>
<td>Vertebrate Evolution &amp; Ecol</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

### 5. Departmental Exit Requirements

- A minimum GPA of 2.0 in all UCF courses taken in the Common Program Prerequisites, the Biology Core and the Upper Division Restricted Electives.
- To demonstrate Computer Competency students are expected to 1) check and maintain their campus electronic mail account and 2) be capable of locating, viewing, and retrieving class and research information on the World Wide Web.
- Students will be required to take a comprehensive exam in biology during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring.
- Biology majors may not take any courses required in the major as a transient student at a community college.

### 6. Foreign Language Requirement

**0-8 hrs**

- Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
- Spanish is highly recommended.

### 7. Electives

**variable**

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required: 120 hours**

**Related Programs:** Biology, Chemistry, Molecular/Microbiology

**Related Minors:** none

**Transfer Notes:**

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

### Acceptable Substitutes

- BSC 2010C & Lab: may use PCB 2011, PCB 2021, PCB 2131, BSC 1040, or BSC 2012
- BSC 2011C & Lab: may use ZOO 2010, BOT 2010, BSC 2041, or BOT 1013. However, subsequent Biology courses require either BSC 2011C or both ZOO 2010 and BOT 2010.
- STA 2023: may use STA 2122, STA 2014C, STA 2023, STA 2024, STA 2321, MAC 2234, MAC 2254, or MAC 3282. However, statistics at or above the level of STA 2323 is required in the major and must still be taken.
- MAC 2311: may use MAC 2233, MAC 2253 or MAC 2281
- PHY 2048 & 2049: Although Common Program Prerequisites permit substituting Organic Chemistry for Physics, both Physics and Organic Chemistry must be taken as part of the Biology degree requirements.

### Suggested Plan of Study

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

#### Summer

- Chemistry test See catalog 0
- Math test See catalog 0

#### Freshman Year

**Fall**

- BSC 2010C Biology I
- CHM 2045C Chemistry Fund I
- ENC 1101 Composition I
- Elective* Check restrictions

**Spring**

- MAC 2311 Calc Anal Geo I
- POS 2041* req# 1D1-GEP
- STA 2023 Stat Methods I
- PCB 3044 Prin of Ecology

#### Sophomore Year

**Fall**

- MAC 2311 Calc Anal Geo I
- POS 2041* req# 1D1-GEP
- STA 2023 Stat Methods I
- PCB 3044 Prin of Ecology

**Spring**

- PCB 3044* req# 4.2-ResEl-b
- PCB 3063 Genetics
- PCB 3063 Genetics

#### Junior Year

**Fall**

- HUM 2210* req# 1B1-GEP
- PHY 2048* req# 2-CPP
- PCB 3023 Mol Cell Biology
- ZOO 3713C* req# 4.1-ResEl

**Spring**

- MUL 2010* req# 1B2-GEP
- PHY 2049* req# 2-CPP
- PCB 3023 Mol Cell Biology
- Elective* Check restrictions

#### Senior Year

**Fall**

- HUM 2210* req# 1B1-GEP
- REL 2300* req# 1B3-GEP
- PCB 4683 Popl Biology Evol
- Elective* Check restrictions

**Spring**

- MUL 2010* req# 1B3-GEP
- PCB 4683 Popl Biology Evol
- Elective* Check restrictions

### BUSINESS ADMINISTRATION (B.A.B.A.)

Completion program for individuals who have a statewide articulated A.A. from a Florida public community college)

**College of Business Administration**

**BA 240, 407-823-2184**

**http://www.bus.ucf.edu**

**email: cba@bus.ucf.edu**

Clermont campus advising: Selena Forrest, 352-536-2174; Cocoa campus advising: Angelia Jones, 321-433-7889; Daytona campus advising: LeeAnn Davis, 386-506-4021; Main Campus Advising: BA 240, 407-823-2184

The Bachelor of Arts in Business Administration (B.A.B.A.) within the College of Business Administration is a degree that will allow students to tailor their degree program to meet the needs of their chosen profession, through the use of an existing minor and a foreign language. The B.A.B.A. degree is significantly different than the traditional business degree at UCF such as Marketing, Finance.
Accounting, etc. The B.A.B.A. degree would permit course enrollment across various disciplines, in correspondence with the academic and life goals of each student. As such, B.A.B.A. is an individualized program of study consisting of; the common program prerequisites, an approved academic minor, one year of foreign language, and the business core. Students can choose any minor outside the College of Business. The B.A.B.A. degree enables UCF’s undergraduate students to graduate from the University with a specialized degree, having a business emphasis, uniquely designed by the student and his or her advisor.

**Admission Requirements**

2.0 GPA and completion of General Education and Common Program Prerequisites.

**Degree Requirements**

*(Note: This degree program is offered only at Cocoa, Daytona, MetroWest, Palm Bay, Sanford/Lake Mary, and South Lake Campuses.)*

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
- Students wanting a Bachelor of Arts in Business Administration must apply for admission to the major.
- Any student receiving a B.A.B.A. degree must complete one-half (15) of the 30 upper level business courses for their degree program in the College of Business Administration.
- Students must earn at least a 2.0 GPA in the College of Business Administration.
- Students seeking a B.A.B.A. major must earn a grade of “C” (2.0) or better in each course applied toward the major.

### 1. UCF General Education Program (36 hrs)

- A. Communication Foundations
  - Select SPC 1600
  - 9 hrs
- B. Cultural and Historical Foundations
  - Select MAC 1105 College Algebra
  - 3 hrs
- C. Mathematical Foundations
  - Select STA 2023 Principles of Statistics
  - 3 hrs
- D. Social Foundations
  - Select ECO 2013 Macroeconomics or
  - ECO 2013 Microeconomics
  - 3 hrs
- E. Science Foundation
  - 3 hrs

### 2. Common Program Prerequisites (18-21 hrs)

- Must be completed with a “C” (2.0) or better.
- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting
- ECO 2003 Microeconomics
- ECO 3401 Quantitative Business Tools
- CGS 2100CC Computer Fundamentals for Business
- *UCF students who have completed MC 2233 and STA 2023 will be waived from ECO 3401.*
- Students who have not completed both classes with a “C” (2.0) or better must take ECO 3401.

### 3. Common Body of Knowledge (30 hrs)

Required for all students

- First or subsequent semester in the College of Business Administration:
- GEB 3301 Cornerstone (Required in 1st or 2nd semester) 6 hrs
- GEB 3366 Introduction to International Business 3 hrs
- BUL 3130 Legal & Ethical Environments of Business 3 hrs
- ECO 3411 Quantitative Business Tools II 3 hrs
- FIN 3403 Business Finance 3 hrs
- MAN 3025 Management of Organizations 3 hrs
- ISM 3011 Essentials of Management Information Systems 3 hrs
- MAR 3023 Marketing 3 hrs
- Last Semester:
- MAN 4720 Strategic Management 3 hrs

### 4. Area of Specialization (18 hrs min)

- Students who change degree programs and select another major must adopt the most current catalog.
- Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
- Students wanting to major in General Business must apply for admission to the major.
- Final exams will be given during Exam Week.

- Any student receiving a business degree must complete one half (15) of the 30 upper level business courses for their degree program in the UCF College of Business Administration.
- 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.

### 5. Departmental Exit Requirement (3 hrs)

- Maintain a minimum GPA of 2.0 in all courses.

### 6. Foreign Language Requirements (0-8 hrs)

- Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
- Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits are permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

**Total Semester Hours Required:** 120 hrs (A.A. Transfers)

**Transfer Notes**

- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Microeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. UCF students who have completed the who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a “C” (2.0) or better must take ECO 3401.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of “C” (2.0) or higher into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- 3000 & 4000 level courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate or Finance. These are third and fourth year (junior and senior) course areas and cannot be satisfied with freshman or sophomore level courses.
- Any student receiving a B.A.B.A. degree must complete one half (15) or the 30 upper level business courses for their degree program in the UCF College of Business Administration.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

**CARDIOPULMONARY SCIENCES (B.S.)**

**College of Health and Public Affairs**

HPA2 210; 407-823-2214

http://www.cohpa.ucf.edu/health/pro/

Undergraduate Program Director: Jeffery E. Ludy, EdD, RRT

E-mail: jludy@mail.ucf.edu

**Admission Requirements - Limited Access**

Acceptance to the university does not necessarily constitute admission to the upper division cardiopulmonary sciences program.

- Separate Application to the limited access program must be made directly to the program prior to February 1st of the year admission is sought.
- Application to the University must also be submitted by the program deadline of February 1st. Acceptance to UCF is necessary before acceptance to the Cardiopulmonary Sciences program.
can occur.

- This limited access program is work-intensive and courses include clinical practice in a variety of health care settings. Due to this it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
- A personal interview is a required part of the application process.
- Student must complete all general education, foreign language, and program admission prerequisites by the end of Spring Semester before starting the program.
- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of “C”.
- A one page statement of intent for entry into the profession must be included with the program application. Typical papers are single spaced and approximately 500 words in length. Candidate should reflect on their reasons for wishing to become a respiratory care professional and their feelings concerning their recent site visit to a respiratory or cardiopulmonary department.
- Applicants are required to complete a cardiopulmonary resuscitation (CPR) program specifically designed for health care providers prior to admission to the program.
- The limited access portion of the cardiopulmonary sciences program has a requirement for all students to submit a criminal background check prior to the scheduling of a personal interview. This requirement mirrors clinical affiliates’ need to guarantee patient safety by screening students prior to providing them access to their patient populations.
- The practice of respiratory care can be a physically challenging experience. Students must possess a level of visual acuity, auditory perception, and motor coordination necessary to participate fully in this limited access program. Specific questions about the physical requirements for this program and professional duties should be directed to the Program Director.

This department will continue to accept Associate in Arts (AA) and Associate in Science (AS) transfers, but those students admitted with the AS degree will need to complete the UCF General Education requirements before they can be actively considered for admission to this limited access program. Students should seek advisement from the program as soon as they declare Cardiopulmonary Sciences as their major so that they are kept abreast of current articulation activity.

Note: A total of 20 UCF undergraduate students are admitted each Fall semester for the regular Cardiopulmonary Sciences program. Registered Respiratory Therapists (RRT’s) applying for this program must be admitted each semester on a space available basis. These individuals have a separate application process and are not counted as part of the regular Cardiopulmonary Sciences class. See transfer notes below.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions, and the Common Program Prerequisites Requirements before transferring within the Florida Public University/Community College System
- Student should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of “C” (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Cardiopulmonary Sciences Program

UCF Residency Requirement: 32 hours
- 25% of course work must be completed in residency at UCF
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs

2. Common Program Prerequisites (16 hrs)
   MAC 1105 College Algebra
   STA 2023 Statistical Methods I
   BSC 2010C Biology I
   MCB 2004C Microbiology
   ZOO 3733C Human Anatomy*
   PCB 3703C Human Physiology*
   CHM 1032&L Chemistry for Health Sciences or higher level (with lab)
   PHY 2053C College Physics or higher level (with lab)
   * see transfer notes

3. Core Requirements (75 hrs)
   RET 3862C Intro. to Respiratory Care 4 hrs
   RET 3484C Cardiopulmonary Physiology 4 hrs
   HSC 4550 Pathophysiological Mechanisms 3 hrs
   HSC 4148 Medical Pharmacology I 2 hrs
   HSC 5959 HIV Disease: A Human Concern 3 hrs
   RET 4503 Chest Medicine 3 hrs
   RET 4244 Life Support Systems 3 hrs
   RET 3483C Respiratory Clinical Assessment 3 hrs
   RET 3264C Mechanical Ventilation 3 hrs
   HSC 4149 Medical Pharmacology II 2 hrs
   RET 4414C Pulmonary Function Studies 4 hrs
   RET 3174 Pediatric Respiratory Care 3 hrs
   RET 3874 Clinical Practice I 5 hrs
   RET 4284 Cardiopulmonary Diagnostics I 3 hrs
   RET 4715 Neonatal Medicine 3 hrs
   RET 4034 Problems in Patient Management. 3 hrs
   RET 3875 Clinical Practice II 8 hrs
   RET 4285 Cardiopulmonary Diagnostics II 3 hrs
   RET 4934 Selected Topics in Respiratory Care 2 hrs
   RET 4876 Clinical Practice III 8 hrs
   RET 4536 Cardiopulmonary Rehabilitation 3 hrs

4. Upper Division Restricted Electives none

5. Departmental Exit Requirements (127 hrs)
   Cardiopulmonary Sciences GPA requirement minimum 2.5 overall required for admission and graduation.

6. Electives none

7. Foreign Language Requirements (0-8 hrs)
   Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

8. University Minimum Exit Requirements
   A. 2.0 UCF GPA
   B. 60 semester hours earned after CLEP awarded
   C. 48 semester hours of upper division credit completed
   D. 32 hours of course work must be completed in residency at UCF
   E. A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   F. Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 127 hrs

Related Programs: Radiologic Sciences, Nursing, Physical Therapy, Health Services Administration, Aging Studies Certificate
Related Minors: Health Services Administration, Health Sciences, Molecular Biology & Microbiology, Biology, Chemistry
Transfer Notes:
The UCF Cardiopulmonary Sciences program maintains an active transfer program open only to Registered Respiratory Therapists (RRT) and registry eligible respiratory therapists (new respiratory care graduates from an accredited respiratory care program). This pro-
gram allows working respiratory care professionals to attend UCF and gain a baccalaureate degree in Cardiopulmonary Sciences. To facilitate this process, transfer credit by examination is available for Registered Respiratory Therapists for 26 credits of course work. Credit will be awarded by the Cardiopulmonary Sciences faculty when students demonstrate advanced knowledge and competencies beyond the level required for entry into the profession. This may be demonstrated by successful completion of the two-part registry examination given by the National Board for Respiratory Care (NBRC). Only graduates of an accredited institution and program are eligible for the NBRC credentials. Students who successfully complete these requirements will have validated the knowledge and clinical competencies and will be awarded credit in their final semester with grades of "S" recorded in their transcripts.

Community College Equivalents

College Algebra (MAC 1105) or (higher level) 3 hrs
Statistics (STA 2023) or (higher level) 3 hrs
College Physics (PHY 1007L) or (PHY 3004L) or (PHY 2053C) or (PHY 2054C) 4 hrs
General Chemistry with Lab (CHM 1031L) or (higher level) 4 hrs
Biology I with Lab (BSC 1005L) or (higher level) 4 hrs
General Microbiology (MCB 2010C) or (MCB 2020C) or (PHA 2751) 4 hrs
Human Anatomy and Physiology I & II (BSC 2033C and 2043C) or (MCB 2004C) 4 hrs

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall
ENC 1101 3
CHM 1032 and lab 3/1
BSC 2010C 4
PSY 2012 or EUH 2001 3
ANT 2000 or SYG 2000 4
HSC 2000 2

Spring
ENC 1102 3
MCB 2004C 4
MAC 1105 3
MCB 2000 or HUM 2210 or AMH 2010 3
MAC 1114 3

Sophomore Year

Fall
PHY 2053C 4
ZOO 3733C or EUH 2001 or HUM 2230 or AMH 2020 3
STA 2023 3

Spring
PCB 3703C 4
EPC 1600 3
ECO 2013 or POS 2041 3
ARH 2050 3
THE1020, REL 2300, PHI 2010, HUM 2210 3

Junior Year

Fall
RET 3026C 4
HSC 2595 3
HSC 4550 3
HSC 4148 2
RET 3484c 4

Spring
RET 4503 3
RET 4244 3
RET 3174 3
RET 3483 3
HSC 4149 2

Summer
RET 4414C 4
RET 5264C 3
RET 3674 5

Senior Year

Fall
RET 4284 3
RET 3875 8
RET 4715 3
RET 4034 3

Spring
RET 4285 3
RET 4876 8
RET 4934 2
RET 4536 3

Minor

none

Accreditation

Upon completion of the undergraduate program, the baccalaureate individual will possess basic and advanced level skills and should be prepared to assume future leadership roles within the profession. Graduates will be prepared to become Registered Respiratory Therapists through licensure by the State of Florida. The Cardiopulmonary Sciences program is accredited by the Committee on Accreditation for Respiratory Care in conjunction with CAAHEP of the American Medical Association.

CHEMISTRY (B.S.)

College of Sciences
Department of Chemistry
CH 117, 407-823-2246
http://www.cas.ucf.edu/chemistry
E-mail: chemistry@ucf.edu
Contact: Cherie Geiger

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in the major
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36+3 hrs)
   (Note: Certain courses must be selected in the GEP for this major, which brings the GEP hours above 36)
   A. Communication Foundations
      1. Select ENC 1101 and ENC 1102 6 hrs
      2. Prefer SPC 1016 3 hrs
   B. Cultural and Historical Foundations
      9 hrs
   C. Mathematical Foundations
      1. Select MAC 2311 4 hrs
      2. Prefer STA 1060C 3 hrs
   D. Social Foundations
      6 hrs
   E. Science Foundations
      1. Select PHY 2048 & L (PR:MAC 2311) 4 hrs
      2. Select BSC 2010C 4 hrs

2. Common Program Prerequisites (22 hrs)
   - CHM 2045C: Chem Fund II
   - CHM 2046 & L: Chem Fund II & Lab
   - CHM 2210: Organic Chem. I
   - CHM 2211: Organic Chem. II
   - MAC 2311: Calculus w/ Anal Geometry I
   - MAC 2312: Calculus w/ Anal Geometry II
   - PHY 2048 & L*: Physics Engr. & Sci. I & Lab
   - PHY 2049 & L*: Physics Engr. & Sci. II & Lab
   *See Transfer Notes for possible substitutes
   (CHM 2040 plus CHM 2041 can substitute for CHM 2045C)

3. Core requirements (39 hrs)
   - MAC 2313: Calculus w/ Anal Geometry III
   - CHM 2211L: Organic Lab Techniques I
   - CHM 3212L: Organic Lab Techniques II
   - CHM 3120 & L: Analytical Chemistry & Lab
   - CHM 3410: Physical Chemistry I
   - CHM 3411: Physical Chemistry II
   - CHM 3411L: Physical Chemistry Lab
   - CHM 4610: Inorganic Chemistry
   - CHM 4610L: Inorganic Chemistry Lab
   - CHM 4309C: Adv Analytical Tech Laboratory
   - CHM 4914C: Undergraduate Research Methods
   - CHM 4912: Undergraduate Research
   - CHM 4930: Chemistry Seminar
   - PHY 2048 & L: Physics Engr. & Sci. I & Lab
   - PHY 2049 & L: Physics Engr. & Sci. II & Lab
   - BCH 4053: Biochemistry I
   - BSC 2010C: Biology I
   - STA 1060C: Statistics Using Excel
   - STA 2023: Statistical Methods I
   - CGS 1006C: Intro to Computer Science
   * See Transfer Notes for possible substitutes

4. Upper Division Restricted Electives (6 hrs)
   - BCH 4054: Biochemistry II
   - CHM 5252: Advanced Organic Chem I
   - CHM 4220: Organic Chem III
   - CHM 5235: Advanced Organic Chem II
   - CHM 5580: Advanced Physical Chem
   - CHM 5450: Polymer Chemistry
   - CHM 5451C: Techniques in Polymer Chemistry
   - CHS 4200: Concepts in Industrial Chem
   - CHS 4615: Environmental Chem
5. Directed Electives  (3 hrs)  
Course will be selected with the aid of a departmental advisor and approved in advance by the department chair. Course will be selected from the physical, biological, mathematical sciences and/or related disciplines and normally will be at the 3000/4000 level. Co-op courses cannot be used in the major.

6. Departmental Exit Requirements
- Complete a minimum of 24 Chemistry credits at UCF
- Achieve at least a “C” GPA (2.0) in all UCF Chemistry courses and an overall 2.0 GPA in all Chemistry courses used to satisfy this requirement
- Grades earned in CHM 4914C, CHM 4930 and CHM 4912 will not be applied in the determination of the Chemistry GPA
- Students are required to take a nationally normed test in chemistry during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring. The student must achieve a satisfactory score on the exam.
- Students are required to submit an undergraduate research report for evaluation no later than the date posted by the Department in the semester they intend to graduate. The report must meet or exceed departmental requirements established for the report.
- Computer Competency met by STA 1060C, a computer science course, or by departmental assessment
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF

7. Foreign Language Requirements  (0-8 hrs) 
Admission: Two years high school, or one year college language (equivalent proficiency exam) prior to graduation.
Graduation: none

8. Electives  (variable) 
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed.
  **Note:** Chemistry majors may count MAC 2313, CHM 2211, and PHY 2049 as upper division credit.
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required  120 hours

Related Programs: Forensic Science, Molecular and, Microbiology, Science Education
Related Minors: Chemistry, Molecular and Microbiology

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- CHM 2045C*: may use CHM 1040 plus CHM 1041
- PHY 2048 & Lab: may use PHY 2053C. However PHY 2048 & Lab is required and will still have to be taken.
- PHY 2049 & Lab: may use PHY 2054C. However PHY 2049 & Lab is requ126ed and will still have to be taken.
- Physics: CPP requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, both Physics courses and Organic Chemistry classes are required for graduation.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

**Summer**
- Chem test See catalog 0
- Math test See catalog 0

**Freshman Year**

**Fall**
- BSC 201C Biology I  4  ENC 1102 Composition II  3  ENC 1101 Composition I  3  SYG 2000* req# ID2-GEP  3  MAC 2311 Calc Anal Geo I  4  CHM 2045C Chemistry Fund I  4  MAC 2312 Calc Anal Geo II  4

**Spring**

**Sophomore Year**

**Fall**
- POS 2041* req# 1D1-GEP 3  BCH 4053 Biochemistry I  3  CHM 3102 Analyte Chemistry  5  CHM 321L Organic L Tech II  2  CHM 3410 Physical Chem I  4  BCH 4054* req# 4-ResEl  3

**Spring**

**Junior Year**

**Fall**
- HUM 2210* req# 1D2-GEP 3  MAC 2312 Calc Anal Geo II  4  CHM 2210 Organic Chm I  3  PHI 2010* req# 1B3-GEP  3  BCH 4051 Organic Chem I  3  SYG 2000* req# 1D2-GEP  3

**Spring**
- HUM 2210* req# 1B1-GEP  3  SYG 2000* req# 1D2-GEP  3  MAC 4610 Inorg Chemistry I  2  ENC 1102 Composition II  3  ENC 1101 Composition I  3  PHY 2049L Phy for Eng Sci II  3  CHM 2046L Chemistry Fund L  1  PCB 3063* req# 5-DirEl  3  Elective* Check restrictions 3  Elective* Check restrictions 3

**Senior Year**

**Fall**
- ENG2 211, 407-823 2841, Fax: 407-823-3315, Civil & Environmental Engineering Department (CEE), College of Engineering and Computer Science
- Associate Chair: Shiou-San Kuo, Ph.D., P.E., E-Mail: soufakuo@mail.ucf.edu
- Undergraduate Coordinator and Academic Advisor: Carol Ann Pohl, E-Mail: cpooh@mail.ucf.edu
- See Film - Cinema Studies Track
- CINEMA STUDIES TRACK in FILM
- See Film - Cinema Studies Track

**CIVIL ENGINEERING (B.S.C.E.)**
College of Engineering and Computer Science

Admission Requirements:
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

Degree Requirements
Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for  (36+2 hrs) 
Engineering Students
The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.
D. Social Foundations 6 hrs

B. Cultural and Historical Foundations 9 hrs

A. Communication Foundations 9 hrs

4. These courses, together with the technical elective courses listed in

7. University Minimum Graduation Requirements

5. Departmental Graduation Requirements (6 hrs)

4. Approved Technical Electives (3 hrs)

3. Courses Required for the Major (62 hrs)

2. Common Program Prerequisites (CPP’s) (19 hrs)

1. ENC 1101 & ENC 1102

1. Select two courses from Historical Foundations

2. ENR 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300,

3. MAC 2312, MAC 2313, MAP 2302

4. Approved Technical Electives (3 hrs)

5. Departmental Graduation Requirements (6 hrs)

6. Foreign Language Requirements

3. MAC 2311

1. ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

2. MAC 2311

1. Prefer ECO 2013 or GEO 203.

2. ENC 1101 & ENC 1102


2. EGN 1006C

3. EGN 1007C


2. EGN 1006C

3. EGN 1007C

4. These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs.

Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHM 2045C/45L Chemistry Fundamentals I with Lab

MAC 2311 Calculus with Analytic Geometry I

MAC 2312 Calculus with Analytic Geometry II

MAC 2313 Calculus with Analytic Geometry III

MAP 2302 Differential Equations

PHY 2048/48L Differential Equations

PHY 2048/48L Calculus with Analytic Geometry I

PHY 2048/48L Calculus with Analytic Geometry II

PHY 2048/48L Calculus with Analytic Geometry III

ENC 1101 Composition I

ENC 1102 Composition II

Humanities Courses

Social Science Courses

Related Programs: Environmental Engineering

Related Minors: Mathematics, Engineering Leadership & Management.

Transfer Notes:

Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.
BS to PhD Program

The Civil Engineering program offers the opportunity for exceptionally well qualified undergraduates to enter directly into the PhD program after completion of an appropriate BS degree. This option allows outstanding undergraduates to begin planning a research program with a specific faculty advisor even before finishing the BS, and may allow completion of the PhD in a shorter time period than by taking a separate Master's followed by the PhD.

Civil Engineering - Construction

Concentration (B.S.C.E.)

Admission Requirements:

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

Degree Requirements:

Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students:

The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations
   1. ENC 1101 & ENC 1102
   2. Prefer SPC 1016

B. Cultural and Historical Foundations
   1. Select two courses from Historical Foundations
   2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120

C. Mathematical Foundations
   1. Select MAC 2311 (PR: MAC 1140)
   2. Select STA 3023 (PR: MAC 2312)

D. Social Foundations
   1. Prefer ECO 2013 or ECO 2023
   2. ANT 2000, PSY 2012, or PSY 4000

E. Science Foundations
   1. Select PHY 2048/48L (PR: MAC 2311)
   2. Prefer GEO 1200

2. Common Program Prerequisites (CPP's)

   These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

   CHM 2045/45L Chemistry Fundamentals I with Lab 4 hrs
   MAC 2311 Calculus with Analytic Geometry I GEP
   MAC 2312 Calculus with Analytic Geometry II 4 hrs
   MAC 2313 Calculus with Analytic Geometry III 4 hrs
   MAP 2302 Differential Equations 3 hrs
   PHY 2048/48L Physics for Engineers & Scientists I GEP
   PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
   ENC 1101 Composition I GEP
   ENC 1102 Composition II GEP
   Humanities Courses GEP
   Social Science Courses GEP
   Humanities or Social Sciences GEP

3. Courses Required for the Major

   The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

   EGN 1006C Intro to the Engineering Profession 1 hr
   EGN 1007C Engineering Concepts & Methods 1 hr
   CHM 2046 Chemistry Fundamentals II 3 hrs
   EGN 3310 Engineering Analysis - Statics 3 hrs
   EGN 3321 Engineering Analysis - Dynamics 3 hrs
   EGN 3331 Mechanics of Materials 3 hrs
   EGN 3613 Engineering Economic Analysis 2 hrs
   ENV 3001 Intro to Environmental Engineering 3 hrs
   STA 3032 Probability & Statistics for Engineers GEP
   CCE 4613 Mech & Elec Systems for Buildings 4 hrs
   CCE 4402 Construction Equip & Productivity 3 hrs
   EGN 3365 Struc & Prop of Materials 3 hrs
   CCE 4004 Construction Methods 3 hrs
   CCE 4034 Construction Estimating & Scheduling 3 hrs
   EGN 4003 Intro to the Construction Industry 3 hrs
   CEG 4101C Geotechnical Engineering I 4 hrs
   CES 4100C Structural Analysis I 4 hrs
   CES 4702 Reinforced Concrete Structures 3 hrs
   CWR 3201 Engineering Fluid Mechanics 3 hrs
   ACG 2071 Managerial Accounting 3 hrs
   SUR 2101C Surveying 3 hrs
   TTE 4004 Transportation Engineering 4 hrs

4. Approved Engineering Science Electives

   Engineering Science electives are available in the BSCE program to address specific student interests in a variety of technical areas. Students are encouraged to take either EGN 3343 (Thermodynamics) or EGN 3373 (Principles of Elect Engr) as the technical elective. Other courses from the list of approved technical electives may be used with the approval of the department advisor. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

   5. Departmental Graduation Requirements

   • CCE 4810C Construction Engr. Design Project 3 hrs
   • CEG 4801C Geotechnical Engr. Design 3 hrs
   • Civil engineering students must take the Fundamentals Exam during their Senior year.
   • Earn a graduating GPA of 2.25 in the major courses from item 3. above, the technical electives in item 4. above, and the approved CE project design courses.

6. Foreign Language Requirements

   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

7. University Minimum Graduation Requirements

   • A 2.0 UCF GPA.
   • 60 semester hours earned after any CLEP award.
   • 48 semester hours of upper division credit completed.
   • 30 of the last 36 hours of course work must be completed in residency at UCF.
   • 25% of course work must be completed in residency at UCF.
   • A maximum of 45 hours of extension, correspondence, CLEP,
**UCF Degree Programs**

**COMMUNICATION SCIENCES AND DISORDERS (B.A., B.S.)**

College of Health and Public Affairs, HPA2 101
http://www.cooha.ucf.edu/compass/

Chair: R. Jane Lieberman, Phone: 407-823-4798
Undergraduate Coordinator: Jamie B. Schwartz
E-mail: jschwartz@mail.ucf.edu
Phone: 407-823-4798

**Admission Requirements**

none

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students must attend an orientation and consult with a departmental advisor
- The courses designated in section 1 below may be taken at a Florida public Community College, and usually should be completed in the first 60 hours
- Students must earn at least a "C" (1.75) in each required course, restricted elective, and B.A./B.S. elective.
- The courses designated in section 1 (General Education) should usually be completed in the first 60 hours

1. **UCF General Education Program** (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural Historical Foundations 9 hrs
   - C. Mathematical Foundations 6 hrs
   - D. Science Foundations 6 hrs
   - E. Science Foundations 6 hrs

2. **Common Program Prerequisites**
   - none

3. **Core Requirements** (60 hrs)
   - DEP 2004 Developmental Psychology 3 hrs
   - SPA 3471 Communication Disorders in Literature and Media 3 hrs
   - SPA 3110 Physiological Bases of Speech and Hearing 3 hrs
   - SPA 3112 Basic Phonetics 3 hrs
   - SPA 3112L Basic Phonetics Lab 1 hr
   - LIN 3716 Language Development: Birth through 8yrs 3 hrs
   - SPA 3011 Speech Science I: Speech Production 3 hrs
   - SPA 3011L Speech Production Lab 1 hr
   - LIN 3717 Language Development: 9 through 18 yrs 3 hrs
   - SPA 3104 Neutral Bases of Communication 3 hrs
   - SPA 3123 Speech Science II: Speech Perception 3 hrs
   - SPA 3123L Speech Perception Lab 1 hr
   - SPA 4476 Speech Disorders Across the Lifespan 3 hrs
   - SPA 4032 Audiology 3 hrs
   - SPA 4478 Multicultural Aspects: Communications Disorders and Differences 3 hrs
   - LIN 4711 Language Analysis 3 hrs
   - LIN 4711L Language Analysis Lab 1 hr
   - SPA 4400 Language Disorders Across the Lifespan 3 hrs
   - SPA 4321 Aural Habilitation-Rehabilitation 3 hrs
   - EAB 3703 Principles of Behavior Modification 3 hrs
   - EEX 4601 Introduction to Behavior Management 3 hrs
   - EEC 4604 Guidance of Young Children 3 hrs
   - EDF 3307 Learning Environments and Guidance for Young Children 3 hrs
   - SPA 3472 Guidance of Young Children w/Communicative Disorders 3 hrs
   - SPA 4550C Clinical Methods in Communicative Disorders 5 hrs
   - SPA 4052L Undergraduate Clinical Practicum 3 hrs
   - SPA 4048 Community Internship 3 hrs

4. **Statistics Requirement** (6 hrs)

   Students have two options for completing this requirement:

   **Option 1:**
   - STA 2023 Statistical Methods I GEP and 3 hrs
Tentative Course Schedule for Entering Freshmen

Fall
- ENC 1101: 3 hrs
- PSY 2012: 3 hrs
- BSC 1005 or PHY 2053C or PHY 1000: 3 hrs
- One Course: ARH 2050 or ARH 2051 or MUL 2010 or THE 2000 or REL 2300 or PHI 2010 or LIT 2110 or LIT 2120: 3 hrs
- Elective: 3 hrs

Spring
- ENC 1102: 3 hrs
- PSC 1121 or PHY 2053C: 3 hrs
- ECO 2013 or ECO 2023 or or POS 2041 or EUR 2000 or HUM 2210: 3 hrs
- or AMH 2010 or DEP 2004: 3 hrs

Graduation:
- Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year in college.
- Students pursuing the B.S. degree must complete two upper division health science courses (six credit hours) approved by the Department.

7. Foreign Language Requirements
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation. ASL (American Sign Language) can be used to fulfill the foreign language admission requirement.

Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year. ASL I, II, and III can be used to fulfill this requirement.

8. Departmental Exit Requirements
Students must achieve a minimum grade of "C-" (1.75) in all required courses, restricted electives, and B.A./B.S. electives in the Department.

Students must also earn an overall minimum of 2.0 GPA in the courses used to satisfy the major.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hours

Related Programs: Health Services Administration, Physical Therapy, Psychology, Social Work, Exceptional Education

Related Minors: Exceptional Education, Aging Studies, Health Services Administration, Interpersonal Communication, Linguistics, Psychology

Transfer Notes:
- "D" (1.0) grades are not accepted
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- Students may take STA 2023 to fulfill the first part of the statistics requirement

Tentative Course Schedule for Entering Freshmen

Fall
- SPC 1600: 3 hrs
- EUH 2001 or HUM 2230: 3 hrs

Spring
- STA 2014C: 6 hrs
- STA 3010: 3 hrs
- STA 4163: 3 hrs

Summer CLAST and nine hours of Summer credit

Fall
- STA 2023: 3 hrs
- STA 3032: 3 hrs
- STA 4163: 3 hrs

Spring
- STA 2014C: 6 hrs
- STA 3010: 3 hrs
- STA 4163: 3 hrs

Note:
- Students must apply and be selected to enroll in STA 4052L.

Note: Certification in speech-language pathology by the American Speech-Language-Hearing Association and licensure by the State of Florida Department of Health, Division of Medical Quality Assurance requires a master’s degree in Communicative Disorders. Minimum requirements for entry into the graduate program typically include at least a 3.0 GPA in the last 60 hours of undergraduate work in the major. Entry level positions to provide speech and language services are available in some Florida school districts. Under the 2/5 Rule, individuals employed in these positions have two years from the date of employment to enroll in a master’s program in Communicative Disorders and five years to complete the degree.

COMPUTER ENGINEERING (B.S.,Cp,E.)
College of Engineering and Computer Science
Department School of Electrical and Computer Engineering & Computer Science
Harris Corp Engineering Ctr., Rm 245
407-823-2786, Fax: 407-823-5835,
http://www.cpe.ucf.edu
Brian Petrasko., E-Mail: petrasko@mail.ucf.edu

Author's Note:
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

Degree Requirements
Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for (36+2 hrs)

Engineering Students
The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations
- ENC 1101 & ENC 1102
- Prefer SPC 1016

B. Cultural and Historical Foundations
- ARH 2050 or ARH 2051 or MUL 2010, THE 2000, REL 2300, PHI 2010, LIT 2110 or LIT 2120

C. Mathematical Foundations
- Select MAC 2311 (PR: MAC 1141)
- Select STA 3032 (PR: MAC 2312)
2. Common Program Prerequisites (CPP’s) (19 hrs)
These courses are specifically required for all engineering students of the State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs.

Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

- ENC 1101 Composition I
- ENC 1102 Composition II
- Humanities Courses
- Social Science Courses

3. Courses Required for the Engineering Core (14 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the majors listed in 4. below, technical elective courses listed in 5. below, and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

- EEL 3123C Networks and Systems 4 hrs
- EIN 1007C Engineering Concepts & Methods 1 hr
- EEL 4768C Computer System Design II 4 hrs
- STA 3032 Probability & Statistics for Engineers 3 hrs
- PHY 3101 Calculus with Analytic Geometry III 4 hrs
- MAC 2313 Calculus with Analytic Geometry III 4 hrs
- MAC 2312 Calculus with Analytic Geometry II 4 hrs
- PHY 2048/49L Physics for Engineers & Scientists I 4 hrs
- PHY 2048/49L Physics for Engineers & Scientists II 4 hrs

4. Courses Required for the Major (45 hrs)

- ELM 3123 Electrical Networks and Systems 4 hrs
- ENC 1102 English Composition II 3 hrs
- MAC 2311 Calculus with Analytic Geometry I 4 hrs
- PHY 2048/49L Physics for Engineers & Scientists I 4 hrs
- STA 3032 Probability & Statistics for Engineers 3 hrs
- MAC 2313 Calculus with Analytic Geometry III 4 hrs
- MAC 2312 Calculus with Analytic Geometry II 4 hrs

5. Approved Technical Electives (6 hrs)
Technical electives are available in the BScPE program to address specific student interests in a variety of technical areas. 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.

- EEL 4882 Engineering System Software 3 hrs
- CHS 1440 Fundamentals of Chemistry for Engineers 4 hrs
- EEL 4884C Engineering Software Design 4 hrs

6. Departmental Graduation Requirements (6 hrs)

- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- ECECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs


Transfer Notes:
- Courses transferred from Community Colleges do not substitute for Upper Division Courses.

Tentative Course Schedule for Entering Freshmen
The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Computer Engineering - 128 semester hours required

FIRST YEAR
Fall 14 hrs1,3 Spring 12 hrs1,3
- *Historical Foundations 1a 3
- *ENC 1102 English Comp II 3
- *MAC 2311 Calc with Analytic Geo I 4
- *MAC 2313 Calc with Analytic Geo III 4
- *SCPC 1016 Tech Presentation 3
- EEL 3123C Networks & Systems 4
- EEL 4882 Engrng Sys S/W 3
- STA 3032 Probability & Statistics for Engineers 3
- MAC 2313 Calculus with Analytic Geo I 4

SECOND YEAR
Fall 17 hrs Spring 15 hrs
- *MAP 2302 Diff Equations 3
- *PHY 2049 Phys for Eng/Sci I 3
- *PHY 2094L Lab En/Sci II 1
- EEL 3130C Intro to Computer Engineering 3
- EEL 4767C Comp SYS Des'n I 4
- CHS 1440 Chem for Engr 4
- EEL 3657 Semiconductor Devices I 3
- EEL 3801C Intro to Computing 3
- EEL 3358 Thermo-Fluids-Heat Transfer 3
- EEL 4768C Cmp Sys Dsgn II 4

Summer 10 hrs
- *Social Foundations 1 3
- *Science Foundations 2 3
- *MAC 2313 Calc with Analytic Geo III 4

THIRD YEAR
Fall 14 hrs Spring 14 hrs
- EEL 3306 Semicond/Dev I 3
- EEL 4884C Engr SW Design 4
- STA 3032 Prob/Stats for Engr 3
- EEL 4884C Engr SW Design 4
- EEL 4914 Senior Design I 3
- EEL 4915 Senior Design II 3
- STA 3032 Prob/Stats for Engr 3
- EEL 4718C Comp Comm Networks 3

FOURTH YEAR
Fall 14 hrs Spring 12 hrs
- EEL 4768C Comp Sys Desgn II 4
- EEL 4884C Engr SW Design 4
- EEL 4914 Senior Design I 3
- EEL 4915 Senior Design II 3
- EEL 4914 Senior Design I 3
- EEL 4915 Senior Design II 3

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section

UCF Degree Programs
on the GEP elsewhere in this catalog for further information.

2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.
   The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

COMPUTER ENGINEERING - SOFTWARE ENGINEERING CONCENTRATION (B.S.Cp.E.)
College of Engineering and Computer Science
Department School of Electrical and Computer Engineering & Computer Science,
Harris Corp Engineering Ctr, Rm 245, 407-823-2549, 407-823-2786, Fax: 407-823-5835,
http://www.cpe.ucf.edu
Brian Petrasko., E-Mail: petrasko@mail.ucf.edu

Admission Requirements:
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

Degree Requirements
Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students
The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations
   1. ENC 1101 & ENC 1102
   2. Prefer SPC 1016
B. Cultural and Historical Foundations
   1. Select two courses from Historical Foundations
     2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120
C. Mathematical Foundations
   1. Select MAC 2311 (PR: MAC 1144), or MAC 2312
   2. Prefer STA 2023 (PR: MAC 2312)
D. Social Foundations
   1. Prefer ECO 2013 or ECO 2023
   2. ANT 2000, PSY 2012, or SYG 2000
E. Science Foundations
   1. Select PHY 2048/48L (PR: MAC 2311)
   2. ANT 2011, BSC 1005, BSC 1050, GYL 1030, GEO 1200, or MCB 1310

2. Common Program Prerequisites (CPP’s)
   (19 hrs)
These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs.

Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

<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 (CHM 2054/C45L will substitute)</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAC 2311</td>
<td>Calculus with Analytic Geometry I</td>
<td>GEP</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>
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<tr>
<td>PHY 2048/48L</td>
<td>Physics for Engineers &amp; Scientists I</td>
<td>GEP</td>
</tr>
<tr>
<td>PHY 2048/48L</td>
<td>Physics for Engineers &amp; Scientists II</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>GEP</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>Composition II</td>
<td>GEP</td>
</tr>
<tr>
<td>Humanities Courses</td>
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<tr>
<td>Social Science Courses</td>
<td></td>
<td>GEP</td>
</tr>
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</tr>
</tbody>
</table>

3. Courses Required for the Engineering Core
   (14 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the major in 4. below technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 1006C</td>
<td>Intro to the Engineering Profession</td>
<td>1 hr</td>
</tr>
<tr>
<td>EGN 1007C</td>
<td>Engineering Concepts &amp; Methods</td>
<td>1 hr</td>
</tr>
<tr>
<td>EGN 2310</td>
<td>Engineering Analysis - Statics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EGN 3321</td>
<td>Engineering Analysis - Dynamics or</td>
<td></td>
</tr>
<tr>
<td>EGN 3358</td>
<td>Thermo-Fluids-Heat Transfer</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EGN 3420</td>
<td>Engineering Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 3032</td>
<td>Probability &amp; Statistics for Engineers</td>
<td>GEP</td>
</tr>
<tr>
<td>PHY 3101</td>
<td>Physics for Engineers &amp; Scientists II</td>
<td>8 hrs</td>
</tr>
</tbody>
</table>

4. Courses Required for the Major
   (45 hrs)

   - EEL 3004: Electrical Networks 3 hrs
   - EEL 3123C: Networks and Systems 4 hrs
   - EEL 3306: Semiconductor Devices I 3 hrs
   - EEL 3307C: Electronics I 4 hrs
   - EEL 3342C: Intro to Digital Circuits & Systems 3 hrs
   - EEL 3657: Linear Control Systems 3 hrs
   - EEL 3801C: Intro to Computer Engineering 3 hrs
   - EEL 4767C: Computer System Design I 4 hrs
   - EEL 4768C: Computer System Design II 4 hrs
   - EEL 4781: Computer Comm Networks 3 hrs
   - EEL 4851C: Engineering Data Structures 4 hrs
   - EEL 4882: Engineering System Software 3 hrs
   - EEL 4894C: Engineering Software Design 4 hrs

5. Approved Software Technical Electives
   (6 hrs)
   Technical electives are available in the BSCpE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

6. Departmental Graduation Requirements
   (6 hrs)
   - EEL 4914: Senior Design I 3 hrs
   - EEL 4915L: Senior Design II 3 hrs
   - CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. Foreign Language Requirements
   (0-8 hrs)

   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

   Graduation: none

8. University Minimum Graduation Requirements
   - A 2.0 UCF GPA.
   - 60 semester hours earned after any CLEP award.
   - 48 semester hours of upper-division credit completed.
   - 30 of the last 36 hours of course work must be completed in residence at UCF.
   - 25% of course work must be completed in residency at UCF.
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.

   Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs


Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen
The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

### Computer Engineering

#### FIRST YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>14 hrs</td>
<td>12 hrs</td>
</tr>
<tr>
<td>Cultural Foundations</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
| ENC 1101 English Comp I | 3 | ENC 1007C Eng Conc & Meth 1  
| COP 1016 Tech Presentations | 3 | COP 3502C Computer Science II  
| CHM 1440 Chem for Engr | 4 | STA 2023 Statistical Methods I  
| EGN 1006C Intro to Eng | 1 | PHY 2047B/L Physics for Eng/Sci I  
| MAC 2311 Calc with Analy Geo I | 4 |  
| Summer | 10 hrs |  
| Historical Foundations 1 | 3 |  
| Science Foundations 2 | 3 |  
| MAC 2313 Calc with Analy Geo III | 4 |  

#### SECOND YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>17 hrs</td>
<td>15 hrs</td>
</tr>
</tbody>
</table>
| MAP 2302 Diff Equations | 3 | EGN 3211 Engr Anal-Dynamics  
| PHY 2049 Phys Engr/Sci II | 3 | *or EGN 3559 Ther-Flds-Ht Tran  
| PHY 2049L Lab En/Sci II | 1 | PHY 3101 Physics for Engr III  
| CHS 1440 Chem for Engr | 4 | EGN 3420 Eng Anal2is2  
| EGN 3310 Eng Anal-Statis | 3 | EEL 3801C Intro Cmptr Eng2  
| EEL 3342C Intro Dig Circ/ Sys | 3 | EEL 3004 Electrical Networks  
| Summer | 6 hrs |  
| ECO 2013 Macroeconomics | 3 |  
| ECO 2023 Microeconomics | 3 |  
| Historical Foundations 1b | 3 |  

#### THIRD YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>14 hrs</td>
<td>14 hrs</td>
</tr>
</tbody>
</table>
| EEL 3306 Semicond's Dev I | 3 | EEL 3307C Electronics I  
| EEL 4851C Eng Data Struc | 4 | EEL 3657 Linear Cont Sys  
| STA 3032 Prob/Stats for Engr | 3 | EEL 4767C Cmp Sys Des'n I  
| EEL 3123C Networks and Systems | 4 | EEL 4882 Engng Sys/SW  

#### FOURTH YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>14 hrs</td>
<td>12 hrs</td>
</tr>
</tbody>
</table>
| EEL 4768C Cmp Sys DSgnII | 4 | Social Foundations I  
| EEL 4884C Engr SW Desgn | 4 | CEN 4020 Comp Des S/W Eng  
| EEL 4914 Senior Design I | 3 | or EEL 5771C Eng Ap/Comp Grph  
| Approved software elective | 3 | EEL 4715L Senior Design II  
| Approved software elective | 3 | EEL 4781L Commp Ntwks  

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.

### COMPUTER SCIENCE (B.S.)

**College of Engineering and Computer Science**

**School of Electrical Engineering & Computer Science**

**Harris Corp Engineering Ctr, Rm 245**


**E-mail: computerscience@ucf.edu**

David Workman, 407-823-2341

**Foundation Examination**

Prior to taking courses beyond basic core requirements, students must pass a foundation exam (COT 3960) which covers problem solving techniques, algorithms, abstraction, proofs, and programming language skills. Tests will be administered each semester. Refer to the computer science website for more information about the foundation exam.

**Degree Requirements**

- Students must meet a Residency Requirement of at least 24 semester hours of regularly scheduled 3000-5000 level courses taken from Computer Science at UCF.
- 18 of the 24 Residency hours must be at the 4000-5000 level

1. UCF General Education Program (36+3 hrs)
   - Communication Foundations 9 hrs
     - 1. ENC 1101 & ENC 1102
   - Cultural and Historical Foundations 9 hrs
   - Mathematical Foundations 7 hrs
     - 1. Select MAC 2311 (PR: MAC 1141)
     - 2. Select STA 2023
   - Social Foundations 6 hrs
   - Science Foundations 8 hrs
     - 1. Select PHY 2048 & L (PR:MAC 2311)
     - 2. Select MAC 2010C & L

2. Common Program Prerequisites (15 hrs)
   - COP 3223 C Programming 3 hrs
   - MAC 2311 Calculus with Analytic Geo I 4 hrs
   - MAC 2312 Calculus with Analytic Geo 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 4 hrs + GEP

3. Basic Core requirements (26 hrs)
   - COP 3330 Intro to OD Programming 3 hrs
   - COP 3502C Computer Science I 3 hrs
   - COP 3503C Computer Science II 4 hrs
   - STA 2023 Statistical Methods I 3 hrs
   - ENC 3241 Technical Report Writing 3 hrs
   - CDA 3103C Computer Organization 3 hrs
   - COP 3100C Intro to Discrete Structures 3 hrs
   - COP 3502C Computer Organization 3 hrs
   - COP 3402C Systems Software 3 hrs
   - COP 3960 Foundation Exam (PR:COT 3100 & COP 3502) 0 hrs

4. Advanced Core (16 hrs)
   - Students must maintain a 2.5 GPA in the following courses. Only the highest grade is used in the calculation.
   - COP 4331 Processes for OD Software Development 4 hrs
   - COP 4335 Comp Architecture 3 hrs
   - COP 4210 Discrete Comp Structures 3 hrs
   - COP 4020 Programming Languages I 3 hrs
   - COP 4060 Operating Systems 3 hrs

5. Restricted Electives (18 hrs)
   - 4000-5000 level Computer Science courses that must include COT 4810 (Topics in Computer Science).
   - Must be offered by Computer Science at UCF. At most 3 hours of independent study allowed. No internships or cooperative education credits are allowed. Approved IT courses offered by Computer Science may also be used toward this requirement (3 credits).
   - 4000-5000 level mathematics or statistics 6 hrs
   - courses from: STA, MAP, MAA, MAD, MAS prefixes and MAC 2313, MAP 2302, MAS 3105, and MAS 3106. No independent study hours, internship, or cooperative education hours are allowed.

6. School Exit Requirements
   - Complete an exit survey
   - Computer Competency met by completion of major

7. Foreign Language Requirements (0-4 hrs)
   - Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
   - Graduation: Proficiency exam in a second language, one semesters of college level Foreign Language, or 3 credits of multicultural courses approved by Computer Science.

8. Electives (variable)
   - Select primarily from upper level courses, with the student's advisor's approval. May be outside of the department.
9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Computer Engineering, Information Technology, Management Information Systems

Related Minors and Certificates: Information Technology, Computer Science, Intelligent Robotic Systems, Secure Computing and Networks

Transfer Notes:
   - Courses taken at community colleges do not substitute for Upper Division courses
   - Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

FIRST YEAR
Fall 12 hrs
   ENC 1101 English Comp I 3
   SPC 1016 Tech Presentations 3
   COT 3100 Intro. Discrete Structures 3
   COP 3223 C Programming 3

Spring 14 hrs
   ENC 1102 English Comp II 3
   MAC 2311 Calc with Analy 4
   COP 3502 Comp Science I 3
   CDA 3103C Comp Organization 4
   COT 3960 Foundation Exam 0

Summer 7 hrs
   MAC 2312 Calc with Analy Geo II 4
   COP 3330 Intro to OOP/Java 3

SECOND YEAR
Fall 14 hrs
   COP 3402 Systems Software 3
   COP 3503C Comp Science II 4
   PHY 2048 Physics for Sci w/lab 4
   Cultural Foundations 3

Spring 14 hrs
   COP 4331 Processes for OO Dev 4
   ENC 3241 Tech Report Writing 3
   PHY 2049 Physics for Sci w/lab 4
   PHI 3626 Ethics in Sci & Tech 3

Summer 6 hrs
   STA 2023 Statistical Methods 3
   Social Foundations 3

THIRD YEAR
Fall 13 hrs
   CDA 4150 Computer Architecture 3
   COP 4020 Programming Langs 3
   BSC 2010C Gen Biology I 4
   Social Foundations 3

Spring 13 hrs
   COP 4000 Operating System 3
   CHM 2045C Chemistry I 4
   Math/Stat Restricted Elective 3
   CS Elective 3

Summer 3 hrs
   COT 4210 Discrete Structure II 3

FOURTH YEAR
Fall 12 hrs
   COT 4810 Topics in CS 3
   CS Elective 3
   Historical Foundations 3
   Free Elective 3

Spring 12 hrs
   COP 3333 C Programming 3
   Multi-Cultural Elective 3
   Historical Foundations 3
   Math/Stat Restricted Elective 3

CRIMINAL JUSTICE (B.A./B.S.)
College of Health and Public Affairs
HPA1 311  407-823-2603
http://www.coehpa.ucf.edu/crim jus/
Undergraduate Program Coordinator: Dr. Mary Ann Eastep
E-mail: cjadvise@mail.ucf.edu
Admission Requirements none

Degree Requirements
   - Students who change degree programs and select this major must adopt the most current catalog

Students should complete the General Education Program before transferring within the Florida Public University/Community College System

The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 80 hours

Students must earn a minimum 2.0 GPA in the core requirements and the restricted electives.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural Historical Foundations 9 hrs
   C. Mathematical Foundations 6 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites none

3. Core Requirements (18 hrs)
   CCJ 3024 Criminal Justice System 3 hrs
   CCJ 3014 Crime in America 3 hrs
   CJC 3510 Prosecution and Adjudication 3 hrs
   CJL 3010 Corrections and Penology 3 hrs
   JCE 4014 Police and Society 3 hrs
   CCJ 4701 Research Methods in Criminal Justice 3 hrs

4. Upper Division Restricted Electives (42 hrs)
   - 27 additional semester hours of upper division criminal justice course work. Seniors can satisfy up to six hours of this requirement with internship and up to six hours with directed independent study; however, the combination of these non-class options shall not exceed nine hours. Program standards must be met to be eligible for either internships or independent study credit.
   - 15 additional semester hours of supporting courses to be selected from an approved list provided by the Department. These courses may vary from student to student depending upon individual needs or objectives, but include selected courses from public administration, legal studies, sociology, statistics, and psychology. The supporting course requirements may also be met by completing a minor from another program approved by the Department with a minimum of 15 semester hours credit.

5. Upper Division Unrestricted Electives none

6. Departmental Exit Requirements (120 hrs)
   Students must take a minimum of 36 hours from the department to obtain the UCF degree in Criminal Justice.

7. Foreign Language Requirements
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at college level. The foreign language credits may be used toward the 15 hour supporting course requirement.

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Legal Studies
Related Minors: Legal Studies, Public Administration, Psychology.

Transfer Notes:
   “D” (1.0) grades are not accepted.

Tentative Course Schedule for Entering Freshmen
Co-op or internship credits are not permitted in this major without "Residency requirement consists of at least 24 hours of regularly scheduled upper division course work taken at UCF.

UCF students who change degree programs and select this major must adopt the most current catalog.

Note: For detailed information about this program, see description in the AS to BS Programs section.

DIGITAL MEDIA (B.A.)

College of Arts and Humanities
School of Film and Digital Media
http://www.dm.ucf.edu
E-mail: digitalmedia@dm.ucf.edu

Director of School: Dr. Terry Frederick
Head of Digital Media Division: Dr. Clint Bowers

The UCF Digital Media Program allows students to integrate the multiple disciplines of art, literature, and technology. It is designed to:

- Provide a solid foundation in techniques and theory in one focused area of competence.
- Provide a broad understanding of related disciplines including arts, humanities, and technology.
- Provide extended experience in working in multidisciplinary teams on realistic problems.

The program is administered through the College of Arts and Humanities. It recognizes that there are many combinations of courses which meet the needs of individual students. Two concentration areas; Visual Language and Digital Interactive Systems lead to a Bachelor of Arts degree.

Note: Although the Program maintains a small computer lab for student use, Digital Media majors must have continual access to a computer.

CRIMINAL JUSTICE (B.S.)

A.S. to B.S. Track

Note: For detailed information about this program, see description in the AS to BS Programs section.

DIGITAL MEDIA (B.A.)

College of Arts and Humanities
School of Film and Digital Media
http://www.dm.ucf.edu
E-mail: digitalmedia@dm.ucf.edu

Director of School: Dr. Terry Frederick
Head of Digital Media Division: Dr. Clint Bowers

The UCF Digital Media Program allows students to integrate the multiple disciplines of art, literature, and technology. It is designed to:

- Provide a solid foundation in techniques and theory in one focused area of competence.
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The program is administered through the College of Arts and Humanities. It recognizes that there are many combinations of courses which meet the needs of individual students. Two concentration areas; Visual Language and Digital Interactive Systems lead to a Bachelor of Arts degree.

Note: Although the Program maintains a small computer lab for student use, Digital Media majors must have continual access to a computer.

Admission Requirements

Degree Requirements

- UCF students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each required course.
- Residency requirement consists of at least 24 hours of regularly scheduled upper division course work taken at UCF.
- Co-op or internship credits are not permitted in this major without prior, written permission.

- Students should see an advisor prior to selecting this major, and at least annually thereafter.

1. UCF General Education Program (36 hrs)
   - Communication Foundations
   - Cultural and Historical Foundations
   - Take one course from 1.B.1 list
   - Select ARH 2050
   - If Digital Interactive Systems take ARH 2050 or MUL 2010
   - Take one course from either 1.B.1 or 1.B.2
   - Mathematical Foundations
   - Select MAC 1105 College Algebra and
   - Select COP 2500C Concepts in Computer Science
   - Note: these two courses fulfill the math GEP

2. School of Film and Digital Media Common Core (15 hrs)
   - DIG 3001* Digital Media Principles
   - FIL 1007 Foundations of Story
   - FIL 1008 Cinematic Expression/Aesthetics
   - FIL 2107 Script Analysis
   - FIL 2224C Foundations of Production

3. Specialization. Choose one of the following 2 areas:

Visual Language (B.A.) (60 hrs)

This specialization concerns how to tell stories and communicate using the visual language of the moving image, animation, and cinematic visual effects.

3A: Visual Language – Program Core: (15 hrs)
   - ARH 2050 History of Western Art I GEP
   - ART 2300C Drawing Fundamentals I 3 hrs
   - ART 2301C Drawing Fundamentals II 3 hrs
   - COP 2500C Concepts in Computer Science GEP
   - DIG 3485 Visual Language of Moving Image 3 hrs
   - DIG 3480C Computers as Medium 4 hrs
   - DIG 3525 Digital Media Production I 3 hrs
   - MAC 1105 College Algebra GEP

3B: Visual Language - Advanced Concentration: (25 hrs)

Note: Admission to the Advanced Concentration is dependent on a portfolio review by faculty.

Choose ten seven of the following courses:

DIG 4206C New Imagery in Motion Workshop 4 hrs
DIG 4325C Look Modeling Workshop 4 hrs
DIG 4326C Geometric Modeling Workshop 4 hrs
DIG 4359C Artificial Environment & Effects Workshop 4 hrs
DIG 4365C Artificial Characters Workshop 4 hrs
DIG 4451C Visual Storytelling & Visual Develop 4 hrs
DIG 4522L Digital Media Service 3 hrs
DIG 4524L Digital Media Project I 3 hrs
DIG 4526C Digital Media Production II 3 hrs
IDS 4786C Production Software 3 hrs
IDS 4786C Production Software 3 hrs
IDS 4786C Production Software 3 hrs
IDS 4786C Production Software 3 hrs

3C: Visual Language - Basic Concentration: (15 hrs)

Note: Admission to all courses after DIG 3485 is dependent on the student’s achieving an ‘A’ or ‘B’ in DIG 3001 and an ‘A’ in the Core course DIG 3485- Visual Language of the Moving Image.

DIG 3355 Artificial Environments & Effects 3 hrs
DIG 3362 Artificial Characters 3 hrs
DIG 3430 Visual Storytelling & Visual Develop 3 hrs
DIG 3524 The Production Process 3 hrs
DIG 4204 Generating and Manipulating Digital Imagery 3 hrs

Digital Interactive Systems (B.A.): (60 hrs)

Note: Admission to all courses after DIG 3001 is dependent on the student’s achieving an ‘A’ or ‘B’ in DIG 3001.

3A: Digital Interactive Systems Program Core: (21-22 hrs)
   - COP 2500C Concepts in Computer Science GEP
   - DIG 3480C Computers as Medium 4 hrs
   - DIG 3485 Visual Language of the Moving Image 3 hrs
   - DIG 3525 Digital Media Production I 3 hrs
   - DIG 3821 Creative Digital Problem Solving 3 hrs
   - DIG 3831 User Centered Design 3 hrs
   - DIG 3XXX Information Management and Authorship 3 hrs
   - DIG 3XXX Writing for Digital Media 3 hrs
UCF Degree Programs

3B: Digital Interactive Systems Basic Concentration: (15 hrs)
- DIG 3135C Digital Imagery 3 hrs
- DIG 3286C Assembling Digital Media 3 hrs
- DIG 3XXX2 Digital Media Audio 3 hrs
- DIG 4711L Internet Interaction 3 hrs
- DIG 4921C E-Commerce I 3 hrs
- FIL 3625 Interactive Entertainment 3 hrs

3C: Digital Interactive Systems Advanced Concentration: Select any seven of the following courses (20 hrs)
- DIG 3450C Interactive Performance I 3 hrs
- DIG 3855 Converging Media 3 hrs
- DIG 4324 Modeling for Real-time Systems II 3 hrs
- DIG 4455C Interactive Performance II 3 hrs
- DIG 4526C Digital Media Production II 3 hrs
- DIG 4640 Autonomous Media 3 hrs
- DIG 4641 Creative Digital Devices 3 hrs
- DIG 4713C Game Design 3 hrs
- DIG 4715C Game Engines 3 hrs
- DIG 4780 Modeling for Real-time Graphics 3 hrs
- DIG 4922 Media for E-Commerce II 3 hrs
- EME 5050 Technology Integration 3 hrs
- FIL 3297 Sound Design I 3 hrs
- FIL 3625 Interactive Entertainment 3 hrs
- FIL 4212C Sound Design II 3 hrs
- IDS 3701C Internet Software Design 3 hrs
- IDS 4703 Digital Media Project 2 3 hrs
- IDS 5136C Interactive Media Design 3 hrs
- Or - any 3000 or 4000 level courses included in another Digital Media Concentration or any other 3000 or 4000 level IDS/DIG Digital Media course.

4. Capstone Experience (4 hrs)
- DIG 3035L Digital Media Workplace 1 hr
- DIG 4522L Digital Media Service 3 hrs
- Or DIG 4523L Digital Media Project I 3 hrs

5. Foreign Language Requirements (0-8 hrs)
BA requirements:
Admission: Met by graduation requirement.
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

6. Electives (variable)
Electives will consist of 3000 and 4000-level courses as approved by the student's advisor. These electives may include IDS 4703 Digital Media Project 2, subject to acceptance in the project.

7. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

8. Total Semester Hours Required 120 hours

Related Programs: Art, Computer Science, English, Film, Music
Related Minors: Art-Studio, Computer Information Technology, Computer Science, Digital Media, English-Technical Writing, Film, Music

Transfer Notes:
- Grades less than “C” (2.0) are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

EARLY CHILDHOOD EDUCATION (PRE-KINDERGARTEN - PRIMARY PK-3) (B.S.)

College of Education
Department of Child, Family, and Community Sciences, ED 209
http://pegasus.cc.ucf.edu/~eceucf
Program Coordinator: Lynn Hartle (until August 2006)
ED 206, 407-823-0045
E-mail: ece@mail.ucf.edu

Admission Requirements:
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses
- Meet any special departmental requirements

Degree Requirements:
- Students should see their assigned advisor prior to registering for classes.
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
      ENC 1101 Composition I 3 hrs
      ENC 1102 Composition II 3 hrs
      Select SPC 1000 Fundamentals of Oral Communication 3 hrs
   B. Cultural-Historical Foundations* (9 hrs)
      Select AMH 2020 U.S. History 1877-Present 3 hrs
      Select AMH 2010 U.S. History 1492-1877 3 hrs
      Select PHI 2010 Introduction to Philosophy 3 hrs
   C. Mathematical Foundations* (6 hrs)
      Select MGF 1106 Finite Mathematics 3 hrs
   Select one:
      STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics

   D. Social Foundations (6 hrs)
      Select POS 2041 American National Government 3 hrs
      Select PSY 2012 General Psychology 3 hrs
      Select ECE 2010 Introduction to Communication 3 hrs
   E. Science Foundations (6 hrs)
      Select PSC 1121 The Human Species or STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics
      Select one:
      ANT 2511 The Human Species or BSC 1005 Biological Principles
      STA 2014C Principles of Statistics

   F. Humanities (6 hrs)
      Select PHI 2010 Introduction to Philosophy 3 hrs
      Select AMH 2020 U.S. History 1877-Present 3 hrs
      Select AMH 2010 U.S. History 1492-1877 3 hrs
      Select SPC 1600 Fundamentals of Oral Communication 3 hrs
      ENC 1102 Composition II 3 hrs
   G. Mathematics (9 hrs)
      Select one:
      STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics
      STA 1106C Introduction to Statistics 3 hrs
      ENC 1101 Composition I 3 hrs

   H. Social Science (6 hrs)
      Select one:
      ANT 2511 The Human Species or BSC 1005 Biological Principles
      STA 2014C Principles of Statistics

2. Common Program Prerequisites (25 hrs)
   A. Communications (9 hrs)
      ENC 1101 Composition I GEP
      ENC 1102 Composition II GEP
      SPC 1600 Fundamentals of Oral Communication GEP
   B. Humanities (6 hrs)
      PHI 2010 Introduction to Philosophy GEP
      Select one:
      ARH 2541 Art and Architecture I GEP
      ARH 2542 Art and Architecture II GEP
      MOR 2010 Music Appreciation GEP
      THE 2000 Theatre Survey or FIL 2401 History of Film GEP
   C. Mathematics (9 hrs)
      MAC 1105 College Algebra GEP
      MGF 1106 Finite Mathematics GEP
      One of the following (per GEP)
      STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics
      STA 1106C Introduction to Statistics 3 hrs
      ENC 1101 Composition I GEP
   D. Social Science (12 hrs)
      Select one:
      AMH 2020 U.S. History 1877-Present GEP
      AMH 2010 U.S. History 1492-1877 GEP
      POS 2411 American National Government GEP
      PSY 2012 General Psychology GEP
      E. Science (9 hrs + lab)
      Select one:
      PSC 1121 The Human Species or BSC 1005 Biological Principles
      STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics
      STA 1106C Introduction to Statistics 3 hrs
Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.

- Complete a TESOL notebook as required for ESOL Endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination prior to graduation.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

9. Total Semester Hours Required 127 hrs

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

10. Recommended Four-Year Sequence of Courses

**Freshman Year**

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<th>Fall</th>
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<th>Spring</th>
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<td>EDG 2701</td>
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<td>ENC 1102</td>
<td>3 hrs</td>
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<td>MGF 1106</td>
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<td>MAC 1105</td>
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<td>POS 2041</td>
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**Sophomore Year**

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<td>AST 2002</td>
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<td>Arts &amp; Sci elec</td>
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<td>ARH 2051 or MUL 2010</td>
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<td>THE 2000 or FIL 2400</td>
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<tr>
<td>STA 2014C</td>
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**Junior Year**

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<td>See Section 4, Semester I above</td>
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**Senior Year**

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<td>See Section 4, Semester IV above</td>
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**ECONOMICS (B.A.)**

**College of Business Administration**

**Department of Economics, BA2 305, 407-823-3266**

**http://www.bus.ucf.edu/economics**

**E-mail: robertp@mail.ucf.edu**

**BA2 303B, 407-823-2640**

The Bachelor of Arts in Economics is designed for students with a liberal arts background, and will provide them with a strong foundation for future graduate studies or as training for a career in politics, teaching, research, social services and a variety of other areas. Successful completion of this program leads to the Bachelor of Arts degree with a major in Economics.

**Admission Requirements**

- None

**Degree Requirements**
Students who change degree programs and select this major must adopt the most current catalog. Students should consult with a College of Business Administration 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
      Required: SPC 1600
   B. Cultural and Historical Foundations 9 hrs
      Select MAC 1105 College Algebra or MAC 1100
      Select STA 2023 Principles of Statistics
   C. Mathematical Foundations 3 hrs
      Select ECO 2023 Microeconomics or STA 2023 and MAC 2233 or STA 2023 and any Calc. 1 & 2 sequence
   D. Social Foundations 3 hrs
      Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics or STA 2023 Principles of Statistics
   E. Science Foundations 6 hrs

2. **Common Program Prerequisites** (3 hrs)
   ECO 2013 Macroeconomics
   ECO 2023 Microeconomics
   GE 2910

3. **Core requirements** (15 hrs)
   ECO 3101 Intermediate Microeconomics 3 hrs
   ECO 3203 Intermediate Macroeconomics 3 hrs
   ECO 3401 Quantitative Business Tools I 3 hrs
   ECO 3411 Quantitative Business Tools II 3 hrs
   ECO 4451 Research Methods in Economics 3 hrs
   *STA 2023 and MAC 2233 or STA 2023 and any Calc. 1 & 2 sequence substitute for ECO 3401.
   ** STA 4163 substitutes for ECO 3411.

4. **Upper Division Restricted Electives** (18 hrs)
   Select one of the following tracks:
   1. **PRE-LAW TRACK**
      Restrictive electives (9 hours)
      ECO 4XXX Law and Economics
      ECO 4XXX History of Economic Thought
      ECP 4403 Industrial Organization and Game Theory
      Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.
   2. **POLITICAL ECONOMY TRACK**
      Restrictive electives (9 hours)
      ECO 4504 Public Economics
      ECO 4903 History of Economic Thought
      ECO 4013 Economics of Developing Areas
      Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses. For double majors in Political Science, two of these electives can be selected from Political Science with advisor’s approval.
   3. **PRIVATE ENTERPRISE TRACK**
      Restrictive electives (9 hours)
      ECO 3223 Money and Banking
      ECO 3202 Labor Economics
      ECP 4403 Industrial Organization and Game Theory
      Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.
   4. **INTERNATIONAL TRACK**
      Restrictive electives (9 hours)
      ECO 3703 International Trade
      ECP 4XXX International Macroeconomics
      ECS 4013 Economics of Developing Areas
      Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses. (ECS 4XXX Seminar In Global Economic Policy is highly recommended).
   5. **ECONOMICS OF GOVERNMENTAL REGULATION**
      Restrictive electives (9 hours)
      ECP 4302 Environmental & Natural Resource Economics
      ECO 4504 Public Economics
      ECP 3203 Labor Economics
      Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.

6. **GENERAL TRACK**
   Select any SIX 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major courses. Two of these electives can be selected from a related discipline with advisor’s approval.

   It is possible to have a double track; however, only the first designated track will show up on the transcript.

   For those students interested in preparing for graduate school, the following electives are strongly recommended:
   - ECO 3703 International Trade
   - ECO 4412 Econometrics
   - ECO 3410 Mathematical Economics
   - ECO 4504 Public Economics
   - ECP 4403 Industrial Organization & Game Theory

   Minors in Mathematics or Statistics are also recommended to help prepare students for graduate school. Consult with your academic advisor on the appropriate minors to be paired with the different tracks.

5. **Required Minor** (18 hrs min)
   Completion of a minor in one of the following suggested areas:
   - Digital Media, Computer Science, History, Mathematics, Statistics, the Social and Behavioral Sciences, or Technical Writing.
   Other minors are acceptable with prior approval of the Economics Undergraduate Advisor.

6. **Departmental Exit Requirements**
   Students majoring in Economics must earn a grade of “C” (2.0) or better in each ECO, ECP, ECS course and in each course applied towards the major as well as a 2.0 overall average in the major.
   - Computer Competency met by Research Methods course.

7. **Foreign Language Requirements** (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. **Electives** (variable)
   Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

9. **University Minimum Exit Requirements**
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required** 120 hours

**Related Programs:** Economics BSBA
**Related Minors:** Computer Science, Economics, Mathematics, Political Science, Psychology, Sociology, Statistics

**Transfer Notes:**
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF
ECO 2013 and 2023 are prerequisites for all subsequent economics courses and will need to be taken.

Four Year Plan of Study - B.A. Economics

**Freshman**

<table>
<thead>
<tr>
<th>1st Term</th>
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<th>2nd Term</th>
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<td>Foreign Language</td>
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Must complete 9 hours in a summer semester.

**Sophomore**

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<tr>
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<tr>
<td>STA 2023*</td>
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</tr>
<tr>
<td>Foreign Language</td>
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**Junior**

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<td>ECO 3411</td>
<td>3</td>
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**Senior**

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<td>ECO 4451</td>
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<td>3</td>
</tr>
<tr>
<td>Minor**</td>
<td>3</td>
<td>Minor**</td>
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</tr>
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**Elective 1**

**Elective 3**

**Elective 3**

**Elective 3**

**Elective 3**

**Elective 3**

**Elective 3**

**Elective 3**

**Elective 3**

**General electives as required to reach 120 semester hours.**

**ECONOMICS, BUSINESS (B.S.B.A.)**

College of Business Administration

Department of Economics, BA2 101, 407-823-2184

http://www.bus.ucf.edu/economics

R. Pennington; 407-823-3266, robertp@bus.ucf.edu

**Admission Requirements to Business Economics**

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

**Degree Requirements**

**1. UCF General Education Program (36 hrs)**

A. Communication Foundations
   - Required: SPC 1600
   - 9 hrs

B. Cultural and Historical Foundations
   - 9 hrs

C. Mathematical Foundations
   - Select MAC 1105 College Algebra
   - 3 hrs
   - Select CGS 2100CC Computer Fundamentals for Business
   - 3 hrs

D. Social Foundations
   - Select Principles of Macroeconomics or
   - ECO 3203 Principles of Microeconomics
   - 3 hrs
   - Select one: PSY 2012, SYG 2000, ANT 2000
   - 3 hrs

E. Science Foundation
   - 6 hrs

**2. Common Program Prerequisites**

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

- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting
- ECO 2013 Principles of Macroeconomics
- ECO 2023 Principles of Microeconomics
- ECO 3401 Quantitative Business Tools I*
- CGS 2100CC Computer Fundamentals for Business
- * At UCF, students who have completed MAC 2233 and STA 2023 or STA 2023 and any Calc I & 2 sequence substitute for ECO 3401 will be waived from ECO 3401. Students who have completed both classes with a "C" (2.0) or better must take ECO 3401.

**3. Common Body of Knowledge (30 hrs)**

First or subsequent semester in the College of Business Administration:

- GEB 3031 Cornerstone (Required in 1st or 2nd semester) 6 hrs
- 3 hrs

**4. Special College and/or Departmental Requirements**

- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisite class.
- Final exams will be given during Exam Week.
- Students must have at least a 2.0 GPA in the COB.

**5. Required Major Courses (9 hrs)**

- ECO 4504 Public Economics
- ECP 4302 Environmental & Natural Resource Economics
- ECP 3203 Labor Economics
- ECS 4013 Economics of Developing Area

Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.

**5. Required Courses (30 hrs)**

**6. Upper Division Restricted Electives (18 hrs)**

All economics majors will be required to take six (6) electives by choosing one of the following options:

**1. BUSINESS ECONOMICS TRACK**

**Restrictive electives (9 hours)**

- ECP 3003 Labor Economics
- ECO 4403 Industrial Organization and Game Theory
- ECO 3223 Money and Banking

Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.

**2. INTERNATIONAL TRACK**

**Restrictive electives (9 hours)**

- ECO 4XXX International Trade
- ECO 4XXX International Macroeconomics
- ECS 4013 Economics of Developing Areas

Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.

**3. PRE-LAW TRACK**

**Restrictive electives (9 hours)**

- ECO 4XXX Law and Economics
- ECP 3003 Labor Economics
- ECP 4403 Industrial Organization and Game Theory

Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.

**4. FINANCIAL ECONOMICS TRACK**

**Restrictive electives (9 hours)**

- ECO 4412 Econometrics
- ECO 3203 Money and Banking
- ECO 4XXX International Macroeconomics

Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.

**5. ECONOMICS OF GOVERNMENTAL REGULATION**

**Restrictive electives (9 hours)**

- ECP 4302 Environmental & Natural Resource Economics
- ECO 4504 Public Economics
- ECP 3003 Labor Economics

Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.

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**UCF Degree Programs**

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### 6. GENERAL TRACK
Select any SIX 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major courses. Two of these electives can be selected from a related discipline with advisor’s approval.

It is possible to have a double track; however, only the first designated track will appear on the transcript.

For those students interested in preparing for graduate school, the following electives are strongly recommended:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ECO 3410</td>
<td>Mathematical Economics</td>
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<tr>
<td>ECO 4504</td>
<td>Public Economics</td>
</tr>
<tr>
<td>ECP 4403</td>
<td>Industrial Organization &amp; Game Theory</td>
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### 7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

### 8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Approved Forces permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

### 9. Electives*** (variable)

| Total Semester Hours Required | 120 hrs |

### Community/Junior College Transfer Notes
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Principles of Macroeconomics, Principles of Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Business Quantitative Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisite class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Professional courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

### Four Year Plan of Study - Business Economics

**Freshman**

<table>
<thead>
<tr>
<th>1st Term</th>
<th>15 hrs</th>
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**Sophomore**

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<td>ACG 2021*</td>
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**Junior**

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<td>GEB 3356</td>
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<td>MAN 3025</td>
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<td>MAC 3031</td>
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<td>ECO 3203</td>
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<td>ECO 3101</td>
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**Senior**

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<td>ECO Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

***General electives as required to reach 120 semester hours.

### ECONOMICS (B.A./M.A.A.E. and B.S.B.A./M.A.A.E.)

**Accelerated Undergraduate/Graduate Program**

Note: For detailed information about these programs, see descriptions in the “Accelerated Undergraduate/Graduate Program” section of this Undergraduate Catalog.

### ELECTRICAL ENGINEERING (B.S.E.E.)

**College of Engineering and Computer Science**

**School of Electrical Engineering & Computer Science Engineering & Computer Science**

**Accelerated Undergraduate/Graduate Program**

Note: For detailed information about these programs, see descriptions in the “Accelerated Undergraduate/Graduate Program” section of this Undergraduate Catalog.
2. Common Program Prerequisites (CPP’s) (19 hrs)
These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs.
Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requisites, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

- EGN 1006C Intro to the Engineering Profession 1 hr
- EGN 1007C Engineering Concepts & Methods 1 hr
- EGN 3310 Engineering Analysis - Statics 3 hrs
- EGN 3321 Engineering Analysis - Dynamics or EGN 3358 Thermo-Thuffs-Heat Transfer 3 hrs
- EGN 3420 Engineering Analysis 3 hrs
- STA 3032 Probability & Statistics for Engineers 3 hrs
- PHY 3101 Physics for Engineers & Scientists III 3 hrs

3. Courses Required for the Engineering Core (14 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the courses required for the major in 4. below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

- EGN 1006C Intro to the Engineering Profession 1 hr
- EGN 1007C Engineering Concepts & Methods 1 hr
- EGN 3310 Engineering Analysis - Statics 3 hrs
- EGN 3321 Engineering Analysis - Dynamics or EGN 3358 Thermo-Thuffs-Heat Transfer 3 hrs
- EGN 3420 Engineering Analysis 3 hrs
- STA 3032 Probability & Statistics for Engineers 3 hrs
- PHY 3101 Physics for Engineers & Scientists III 3 hrs

4. Courses Required for the Major (41 hrs)
- EEL 3004 Electrical Networks 3 hrs
- EEL 3123C Networks and Systems 4 hrs
- EEL 3306 Semiconductor Devices I 3 hrs
- EEL 3307C Electronics I 4 hrs
- EEL 3342C Intro to Digital Circuits & Systems 3 hrs
- EEL 3470 Electromagnetic Fields 3 hrs
- EEL 3552C Analog and Digital Communications 4 hrs
- EEL 3657 Control Systems 3 hrs
- EEL 3801C Intro to Computer Engineering 3 hrs
- EEL 4098C Electronics II 4 hrs
- EEL 4750 Digital Signal Processing Fund. 3 hrs
- EEL 4767C Computer System Design I 4 hrs

5. Approved Technical Electives (10 hrs)
Technical electives are available in the BSEE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

6. Departmental Graduation Requirements (6 hrs)
- EEL 4914 Senior Design I 3 hrs
- EEL 4915 Senior Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: None

8. University Minimum Graduation Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.

UCF Degree Programs

- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit.

Total Semester Hours Required: 128 hrs

Related Programs: Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

Related Minors:
- Engineering Leadership & Management, Intelligent Robotic Systems

Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen
The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Electrical Engineering - 128 semester hours required

FIRST YEAR
Fall 12 hrs 1,3 Spring 15 hrs 1,3
EGN 1006C Intro to Engr 1 EGN 1007C Eng Conc & Meth 1
*ENC 1101 Composition I 3 *ENC 1102 Composition II 3
*EEL 1440 Chem for Engrs 4 *MAC 2311 Calc with Analytic Geo I 4
*MAC 2311 Calc with Analytic Geo II 4 *MAC 2312 Calc with Analytic Geo II 4
*PHY 2048/L Phys Eng I w/lab 4

Summer 11 hrs 1
- EGN 2300C Intro to Engr 1 EGN 2300C Eng Conc & Meth 1
- EGN 2300C Intro to Engr 1 EGN 2300C Eng Conc & Meth 1
- EGN 2300C Intro to Engr 1 EGN 2300C Eng Conc & Meth 1
- EGN 2300C Intro to Engr 1 EGN 2300C Eng Conc & Meth 1

SECOND YEAR
Fall 15 hrs 1,3 Spring 15 hrs 1,3
*MAP 2322 Diff Equations 3 *Cultural & Hist Foundations 3
*PHY 2049 Phys for Engr/Sci 3 *ENC 1101 English Comp I 3
*PHY 2049 Phys for Engr/Sci 3 *ENC 1102 English Comp II 3
*PHY 2049 Phys for Engr/Sci 3 *MAC 2311 Calc with Analytic Geo I 4
*MAC 2311 Calc with Analytic Geo II 4 *MAC 2312 Calc with Analytic Geo II 4

Summer 6 hrs 1
- Historical Foundations 1b 3 - EEL 3004 Electrical Networks 3
- *Cultural & Hist Foundations 3 - EEL 3004 Electrical Networks 3
- *Cultural & Hist Foundations 3 - EEL 3004 Electrical Networks 3

THIRD YEAR
Fall 14 hrs Spring 14 hrs
EEL 3306 Semicond Devices I 3 EEL 3307C Electronics I 4
STA 3032 Prob & Stats Engrs 3 EEL 3367 Linear Control Sys 3
EEL 4767C Cmptr Sys Design I 4 EEL 3552C Anal & Dig Comm 4
EEL 3123C Networks and Systems 4 EEL 3321 Engr Anal-Dynamics 3
- EEL 3321 Engr Anal-Dynamics 3 - EGN 3358 Ther-Mats-Hot Transfer 3

FOURTH YEAR
Fall 13 hrs Spring 13 hrs
EEL 4750 Signal Proc Fund 3 Approved Technical Elective 3
EEL 3470 Electromagnetic Fields 3 Approved Technical Elective 3
EEL 3470 Electromagnetic Fields 3 Approved Technical Elective 3
EEL 4914 Senior Design I 3 EEL 4915L Senior Design II 3

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. ENC 1006C and ENC 1007C are required courses for incoming freshmen only.
The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

**ELECTRICAL ENGINEERING - MICROELECTRONICS CONCENTRATION (B.S.E.E.)**

**College of Engineering and Computer Science**

**School of Electrical Engineering & Computer Science**

**Harris Corp Engineering Ctr, Rm 245, 407-823-5765, Fax: 407-823-5835,**

http://www.ee.ucf.edu

Samuel Richie, E-mail: richie@mail.ucf.edu

**Admission Requirements:**

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

**Degree Requirements**

Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. **UCF General Education Program for Engineering Students**

The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations

1. ENC 1101 & ENC 1102
2. Prefer SPC 1016

B. Cultural and Historical Foundations

1. Select two courses from Historical Foundations
2. ARH 2050, ARH 2051, MUL 2100, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120

C. Mathematical Foundations

7 hrs
1. Select MAC 2311 (PR: MAC 1144)
2. Select STA 2023 (PR: MAC 2312)

D. Social Foundations

6 hrs
1. Prefer ECO 2003 or ECO 2023

E. Science Foundations

7 hrs
1. Select PHY 2048L & PHY 2051L (PR: MAC 2311)
2. ANT 2011, BSC 1005, GLY 1030, GEO 1200, or MCB 1310

2. Common Program Prerequisites (CPP’s) (19 hrs)

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs.

**Note:** MAC 2311 and PHY 2048L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

- CHS 1440 Fundamentals of Chemistry for Eng
  - (CHM 2045C/45L will substitute) 4 hrs

- MAC 2311 Calculus with Analytic Geometry I 4 hrs

- MAC 2312 Calculus with Analytic Geometry II 4 hrs

- MAC 2313 Calculus with Analytic Geometry III 4 hrs

- MAD 2202 Differential Equations 3 hrs

- PHY 2048L Physics for Engineers & Scientists I 4 hrs

- PHY 2049L Physics for Engineers & Scientists II 4 hrs

- ENC 1101 Composition I 4 hrs

- ENC 1102 Composition II 4 hrs

- Humanities Courses

- Social Science Courses

- Humanities or Social Sciences

3. **Courses Required for the Engineering Core**

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the major in 4. below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

- EGN 1006C Intro to the Engineering Profession 1 hr

- EGN 1007C Engineering Concepts & Methods 1 hr

- EGN 3310 Engineering Analysis - Statics 3 hrs

- EGN 3321 Engineering Analysis - Dynamics or

- EGN 3358 Thermo-Fluids-Heat Transfer 3 hrs

- EGN 3420 Engineering Analysis 3 hrs

- STA 3032 Probability & Statistics for Engineers 3 hrs

- PHY 3101 Physics for Engineers & Scientists III 3 hrs

4. **Courses Required for the Major**

41 hrs

- EEL 3004 Electrical Networks 3 hrs

- EEL 3123C Networks and Systems 4 hrs

- EEL 3306 Semiconductor Devices I 3 hrs

- EEL 3307C Electronics I 4 hrs

- EEL 3342C Intro to Digital Circuits & Systems 3 hrs

- EEL 3370 Electromagnetic Fields 4 hrs

- EEL 3552C Analog & Digital Communications 4 hrs

- EEL 3567 Linear Control Systems 3 hrs

- EEL 3801C Intro to Computer Engineering 3 hrs

- EEL 4309C Electronics II 4 hrs

- EEL 4750 Digital Signal Processing Fund. 3 hrs

- EEL 4767C Computer System Design I 4 hrs

5. **Approved Microelectronics Technical Electives**

10 hrs

Technical electives are available in the BSEE program to address specific student interests in a variety of technical areas. For those students with a declared interest in microelectronics, a concentration in this area is available by taking three microelectronics technical electives in addition to the required microelectronics courses listed in 4. above.

6. **Departmental Graduation Requirements**

6 hrs

- EEL 4914 Senior Design I 3 hrs

- EEL 4915 Senior Design II 3 hrs

- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. **Foreign Language Requirements**

8 hrs

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. **University Minimum Graduation Requirements**

- A 2.0 UCF GPA.

- 60 semester hours earned after any CLEP award.

- 48 semester hours of upper division credit completed.

- 30 of the last 36 hours of course work must be completed in residency at UCF.

- 25% of course work must be completed in residency at UCF.

- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.

- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit.

**Total Semester Hours Required:** 128 hours

**Related Programs:** Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

**Related Minors:** Engineering Leadership & Management, Intelligent Robotic Systems

**Transfer Notes:**

- Courses taken from Community Colleges do not substitute for Upper Division Courses.

- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

**Tentative Course Schedule for Entering Freshmen**

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the major in 4. below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

3. Courses Required for the Engineering Core

The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the State University System/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

1. Communication Foundations
   - 9 hrs
   - 1. ENC 1101 & ENC 1102
   - 2. Prefer SPC 1016

2. Cultural and Historical Foundations
   - 9 hrs
   - 1. Select two courses from Historical Foundations
   - 2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FLL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2130

3. Mathematical Foundations
   - 7 hrs
   - 1. Select MAC 2311 (PR: MAC 1147)
   - 2. Select STA 3023 (PR: MAC 2223)

4. Social Foundations
   - 6 hrs
   - 1. Prefer ECO 2013 or ECO 2023
   - 2. ANT 2000, SYG 2000, or SYG 2001

5. Approved Technical Electives (10 hrs)

   - 1. PHY 2048/L (PR: MAC 2311)
   - 2. PHY 2048/L (PR: MAC 1147)
   - 3. PHY 2049/L (PR: MAC 2311)

2. Common Program Prerequisites (CPP’s)

   - 19 hrs

   - These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs.

3. Courses Required for the Engineering Core

   - 14 hrs

   - The College of Engineering and Computer Science requires all engineering students to achieves a minimum 2.25 GPA in completing these courses, together with the courses required for the major in 4. below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

4. Courses Required for the Major

   - 41 hrs

   - Technical electives are available in the BSEE program to address specific student interests in a variety of technical areas. For those stu-
UCF Degree Programs

dents with a declared interest in wireless communication, a concentration in this area if available by taking the wireless technical electives in addition to the required communication courses listed in 3. above.

6. Departmental Graduation Requirements (6 hrs)
- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Graduation Requirements
- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residence at UCF.
- 25% of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit.

Total Semester Hours Required: 128 hrs

Related Programs: Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

Related Minors: Engineering Leadership & Management, Intelligent Robotic Systems

Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen
The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Electrical Engineering - Wireless Communication Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 1006C</td>
<td>Intro to Engr</td>
<td>1</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>College Algebra GEP</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>English Comp I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>English Comp II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAC 2254</td>
<td>Calculus II or equiv</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAC 2313</td>
<td>Calc for Engrs</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHY 2049</td>
<td>Phys Lab EnGr</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>Calculus I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAC 2311</td>
<td>Calculus II or equiv</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHY 2053</td>
<td>Physics I/Gr</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAC 2312</td>
<td>Calculus II or equiv</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHY 2048L</td>
<td>Physics I/Gr</td>
<td>3 hrs</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. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.

Accelerated BS/MS Degree Program
The Electrical Engineering program offers the Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated Program section in the back of this catalog for more information.

Electrical Engineering Technology - Computer Systems Concentration (B.S.E.E.T.)

College of Engineering and Computer Science Engineering Technology (ENT) Department, ENGR 207 http://www.ent.ucf.edu

Coordinator: Alireza Rahrooh
407-823-4749 Fax: 407-823-4746
E-mail: rahrooh@pegasus.cc.ucf.edu

Admission Requirements

Degree Requirements
- Students should check with their ENT advisor frequently to insure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (36+2 hrs)
   A. Communication Foundations                           9 hrs
   1. ENC 1101 & ENC 1102                                3 hrs
   2. Prefer SPC 1016                                     6 hrs
   B. Cultural and Historical Foundations                 9 hrs
   C. Mathematical Foundations                           6 hrs
   1. Select MAC 1105                                     3 hrs
   2. MAC 2313                                           3 hrs
   D. Social Foundations                                  6 hrs
   1. Select PHY 2053C                                    3 hrs
   2. Select MAC 2314 or MAC 2315                         3 hrs
   E. Science Foundations                                 8 hrs
   1. Select PHY 2053C                                    3 hrs
   2. Select PHY 2053C                                    3 hrs
   3. Select MAC 2313 or MAC 2315                         3 hrs
   4. Select PHY 2053C                                    3 hrs

2. Common Program Prerequisites (CPP) (6/8 hrs)
   (C or better grades are required in all courses)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MAC 2253</td>
<td>Calculus I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAC 2311</td>
<td>Calculus II or equiv</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAC 2312</td>
<td>Calculus II or equiv</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHY 2053C</td>
<td>Physics I/Gr</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHY 2048L</td>
<td>Physics I/Gr</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

3. Engineering Technology Core Requirements (C or better grades are required in all courses) (25 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>MAC 2311</td>
<td>Calculus I</td>
<td>3 hrs</td>
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<tr>
<td>MAC 2312</td>
<td>Calculus II or equiv</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAC 2313</td>
<td>Calculus I or equiv</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAP 3401</td>
<td>Problem Analysis or</td>
<td>3 hrs</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. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.
4. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

The Electrical Engineering Technology program offers the Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated Program section in the back of this catalog for more information.
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 2046/L can substitute for PHY 2053C.

### Tentative Course Schedule for the Computer Systems Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

#### Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>13/14 hrs</th>
<th>Spring</th>
<th>12/13 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2253/3211 Calculus I</td>
<td>3/4 hrs</td>
<td>MAP 3401 Prob Analysis or STA 4350/BIO 300</td>
<td>3/4 hrs</td>
</tr>
<tr>
<td>EET 3116 Network Analysis</td>
<td>3 hrs</td>
<td>EET 3116 App Eng Quality Assur</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4427 Applied Database I</td>
<td>3 hrs</td>
<td>CET 4427 Applied Database I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4505 Operating Systems I</td>
<td>3 hrs</td>
<td>CET 3198C Digital Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EET 3716 Network Analysis</td>
<td>3 hrs</td>
<td>STA 4233 Statistical Methods I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CEE 4138C Digital Programmable Devices</td>
<td>3 hrs</td>
<td>STA 4233 Statistical Methods I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CEE 4134C Microprocessor Elec II</td>
<td>3 hrs</td>
<td>STA 4233 Statistical Methods I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4429 Applied Database II</td>
<td>3 hrs</td>
<td>STA 4233 Statistical Methods I</td>
<td>3 hrs</td>
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</table>

#### Summer

<table>
<thead>
<tr>
<th>10 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 4134C Micro Electronics II</td>
</tr>
<tr>
<td>CET 4333 Computer Org</td>
</tr>
<tr>
<td>CET 4138C Digital Prgml Devices</td>
</tr>
</tbody>
</table>

#### Senior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>14 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETI 4448 Appl Proj Management</td>
<td>3 hrs</td>
<td>ETI 4950C Senior Design Proj</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 3503 Microcomputer Tech I</td>
<td>3 hrs</td>
<td>CET 3427 Applied Database II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4505 App Oper Sys I</td>
<td>3 hrs</td>
<td>CET 4505 App Oper Sys I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 3651C Computer Appl</td>
<td>3 hrs</td>
<td>ETI 4448 Appl Proj Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET Elective</td>
<td>3 hrs</td>
<td>CET Elective</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### ELECTRICAL ENGINEERING TECHNOLOGY - ELECTRICAL SYSTEMS CONCENTRATION (B.S.E.E.T.)

College of Engineering and Computer Science

Engineering Technology (ENT) Department

ENGR 207

[http://www.ent.ucf.edu](http://www.ent.ucf.edu)

Coordinator: Alireza Rahrooh

407-823-4749 Fax: 407-823-4746

E-mail: rahrooh@pegasus.cc.ucf.edu

[http://www.ent.ucf.edu](http://www.ent.ucf.edu)

### Admission Requirements

- none

### Degree Requirements

- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

#### 1. UCF General Education Program (36+2 hrs)

- A. Communication Foundations: 9 hrs
  - 1. ENC 1101 & 1102
  - 2. Prefer SPC 1016
- B. Cultural and Historical Foundations: 9 hrs
  - 1. Select MAC 1105
  - 2. Select STA 2023
- C. Mathematical Foundations: 6 hrs
  - 1. Select MAC 1105
  - 2. Select STA 2023
- D. Social Foundations: 6 hrs
  - 1. Select STA 2023
  - 2. Select BSC 1050/105L, BSC 1050/1050L, or BSC2010C
- E. Science Foundations: 8 hrs
  - 1. Select PHY 2053C
  - 2. Select MAC 2253 or Calculus I

#### 2. Common Program Prerequisites (CPP) (6/8 hrs)

(C or better grades are required in all courses)

- MAC 2253 or Calculus I 3/4 hrs
MAC 2311
MAC 2254 or Calculus II or equiv 3/4 hrs
MAC 2312
PHY 2053C or Physics I/ Lab

3. Engineering Technology Core Requirements (25 hrs)
(C or better grades are required in all courses)
BSC 1005L, BSC 1050L, GEO 1200L, BSC 2010C
ENC 3241 Writing for the Technical Professional
MAC 1105 College Algebra
MAC 1114 College Trigonometry 3 hrs
MAC 2253 or Calculus I
MAC 2311
MAP 3401 Problem Analysis or
MAC 2312 Calculus II
PHY 2053C College Physics I
PHY 2054C College Physics II
ETG 3541 Applied Mechanics
ETI 3851C Computer Applications
ETI 3671 Technical Economic Analysis 3 hrs
ETI 3116 Applied Engineering Quality Assurance
ETI 4448 Applied Project Management
STA 2023 Statistical Methods I

4. Technical Specialization (56 hrs)
Lower Level Required and Elective Courses (25 hrs)
(C or better grades are required in all courses)
EST 3222 Intro to Photonics 3 hrs
CET 4134C Microprocessor Electronics II 3 hrs
EET 4732C Feedback Control Systems 4 hrs
EET 4158C Linear Integrated Circuits 3 hrs
EET 3716 Network Analysis 3 hrs
MAC 2253 Applied Calculus I or
MAP 3201 Problem Analysis or 3/4 hrs
STA 2023 Statistical Methods I

Upper Level Required Courses (22 hrs)
(C or better grades are required in all courses)
ESTI 3116 Applied Engineering Quality Assurance
ETG 4950C Senior Design Project 3 hrs

Upper Level Technical Electives (9 hrs)
Select 7 hrs from courses listed below:
(C or better grades are required in all courses)
CET 4134C Microprocessor Electronics II 3 hrs
CET 4732C Feedback Control Systems 4 hrs
ETI 3651C Computer Applications 3 hrs
ETI 3671 Technical Economic Analysis 3 hrs
ETG 3541 Applied Mechanics 3 hrs
CET 3323C Digital Fundamentals 3 hrs
ETI 3851C Computer Applications 3 hrs
ETI 3434C Analog Circuits 4 hrs
ETI 3116 Applied Engineering Quality Assurance 3 hrs
ETG 9548 Power Systems 3 hrs
CET 3503 Microprocessor Technology I 3 hrs
CET 3198C Digital Systems 3 hrs
ETI 4448 Applied Project Management 3 hrs

5. Departmental Exit Requirement (3 hrs)
(C or better grade is required)
ETG 4950C Senior Design Project 3 hrs

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

7. Approved Technical Electives (0-4 hrs)
Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- All semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- 25% of course work must be completed in residence at UCF

Total Semester Hours Required: 128 hours

Related Programs: Electrical Engineering Technology (Computer Systems Concentration).
Related Minors: none

Transfer Notes:
- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution meet have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L can substitute for PHY 2053C.

Tentative Course Schedule for the Electrical Systems Concentration
The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year
Fall 12/14 hrs Spring 15/16 hrs
MAC 2253 Applied Calc I 3/4 hrs MAP 3401 Problem Analysis or 3/4 hrs
PHY 2053C/2049 Physics II 4 hrs CEG 3651C Computer Applications 3 hrs
ETG 3541 Applied Mechanics 3 hrs CET 3198C Digital Systems 3 hrs
CET 3503 Microprocessor Technology I 3 hrs EET 3716 Network Analy sis 3 hrs
ETI 3116 Applied Engineering Quality Assurance 3 hrs EET 3167 Tech Economic Analysis 2 hrs
STA 2023 Statistical Methods I 3 hrs

Summer 6 hrs
CET 4134C Microprocessor Elec II 3 hrs ETI 4448 Applied Project Management 3 hrs

Senior Year
Fall 12 hrs Spring 13 hrs
ETG 4950C Senior Design Project 3 hrs EET 4548 Power Systems 3 hrs
EET 4548 Power Systems 3 hrs ETI 3616 Tech Economic Analysis 2 hrs
EET 4548 Power Systems 3 hrs ETI 4548 Power Systems 3 hrs
ETI 3671 Tech Economic Analysis 2 hrs ETG 4950C Senior Design Project 3 hrs
CET 4198C Digital Systems 3 hrs ETI 3671 Tech Economic Analysis 2 hrs
ETI 4448 Applied Project Management 3 hrs CEG 3651C Computer Applications 3 hrs

ELECTRICAL ENGINEERING TECHNOLOGY (BSEET)
AS to BSEET TRACK
Note: For detailed information about this program, see the AS to BS Program section.

ELECTRICAL ENGINEERING TECHNOLOGY - PHOTONICS CONCENTRATION (B.S.E.E.T.)
College of Engineering and Computer Science Engineering Technology (ENT) Department, ENGR 207
http://www.ent.ucf.edu
Coordinator: Al Ducharme
407-823-0770 Fax: 407-823-4746
E-mail: ducharme@mail.ucf.edu
I. Admission Requirements: none

II. Degree Requirements:
- Students should check with their ENT advisor to ensure they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

III. 1. UCF General Education Program (36+2 hrs)
   - Communication Foundations: 9 hrs
   - Cultural and Historical Foundations: 9 hrs
   - Mathematical Foundations: 6 hrs
   - Natural & Physical Sciences: 9 hrs
   - Social Foundations: 6 hrs
   - Scientific Foundations: 8 hrs
   1. Select PHY 2053C, or MAP 3401 or MAC 2311
   2. Select BSC 1005/L, BSC 1050/L, BSC 2010C, or MAC 1105

IV. 2. Common Program Prerequisites (CPP) (6/8 hrs)
(C or better grades are required in all courses)

   MAC 2253 or Calculus I
   MAC 2311
   MAC 2254 or Calculus II or equiv
   PHY 2053C or PHY 2048/L

V. 3. Engineering Technology Core Requirements (22 hrs)
(C or better grades are required in all courses)

   BSC 1050/L, BSC 1050/L, or BSC 2010C
   ENC 3241 Writing for the Technical Professional
   MAC 1105
   MAC 1114
   MAC 2253 or Calculus I
   MAP 3401
   MAC 2312
   PHY 2053C
   PHY 2054C
   ETG 3541
   ETI 3671
   ETI 3116
   ETI 4448
   STA 2023
   STA 2023

VI. 4. Technical Specialization (59 hrs)
Lower Level Required and Elective Courses
(C or better grades are required in all courses)

   EST 3222 Intro to Photonics
   EST 3213 Photons Simulation
   EST 3211 Wave Photonics
   EST 4263 Laser Systems Technology
   EST 4227 Photonics Sensors and Devices
   EST 4256 Photonics Communication
   EST 4259C Manufacturing of Photonics

   Higher Level Required Courses
(C or better grades are required in all courses)

   EST 3716 Network Analysis
   EET 4158C Linear Int Cir
   ETG 3541 Applied Mechanics
   EST 4222 Intro to Photonics
   EST 4548 Power Systems
   EST 4158C Linear Integrated Circuits
   EST 4227 Photonics Sensors

   Upper Level Technical Electives
(C or better grades are required in all courses)

   EST 4259C Photonic Systems Analysis

VII. 5. Departmental Exit Requirement
(3 hrs)

8. UCF General Education Program:
(C or better grade is required)
- EST 4259C Photonic Systems Analysis: 3 hrs
- A grade of 2.0 or better is required in all prerequisites.

6. Foreign Language Requirements
   (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

7. Approved Technical Electives
   (0-4 hrs)
   Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements
   - A 2.0 GPA
   - 60 semester hours earned after any CLEP award
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - 25% of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hrs

Related Programs: Electrical Engineering Technology (Computer Systems Concentration).
Related Minor: none

Transfer Notes:
- Students transferring from any Florida public institution with an AA-degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L can substitute for PHY 2053C.

Tentative Course Schedule for the Photonics Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year

Fall
- MAC 2253 Applied Calc I or MAC 2311 Calculus
- PHY 2053C College Physics I
- ETI 3116 Applied Engineering Quality Assurance
- ETI 4448 Applied Project Management
- STA 2023 Statistical Methods I

Spring
- MAC 2253 Applied Calc I or MAP 3401 Problem Analysis or MAC 2311 Calculus II
- PHY 2053C College Physics I
- ETI 3116 Applied Engineering Quality Assurance
- ETI 4448 Applied Project Management
- STA 2023 Statistical Methods I

Upper Level Requirement Courses
(C or better grades are required in all courses)

- EST 3716 Network Analysis
- EET 4158C Linear Int Cir
- ETG 3541 Applied Mechanics
- EST 4222 Intro to Photonics
- EST 4548 Power Systems
- EST 4158C Linear Integrated Circuits
- ETI 3116 Applied Engineering Quality Assurance
- EST 4227 Photonics Sensors

Upper Level Technical Electives
(C or better grades are required in all courses)

- EST 4259C Photonic Systems Analysis

Graduation:
- A grade of 2.0 or better is required in all prerequisites.

Related Programs: Electrical Engineering Technology (Computer Systems Concentration).
Related Minor: none

Transfer Notes:
- Students transferring from any Florida public institution with an AA-degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L can substitute for PHY 2053C.

Tentative Course Schedule for the Photonics Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year

Fall
- MAC 2253 Applied Calc I or MAC 2311 Calculus
- PHY 2053C College Physics I
- ETI 3116 Applied Engineering Quality Assurance
- ETI 4448 Applied Project Management
- STA 2023 Statistical Methods I

Spring
- MAC 2253 Applied Calc I or MAP 3401 Problem Analysis or MAC 2311 Calculus II
- PHY 2053C College Physics I
- ETI 3116 Applied Engineering Quality Assurance
- ETI 4448 Applied Project Management
- STA 2023 Statistical Methods I

Upper Level Requirement Courses
(C or better grades are required in all courses)

- EST 3716 Network Analysis
- EET 4158C Linear Int Cir
- ETG 3541 Applied Mechanics
- EST 4222 Intro to Photonics
- EST 4548 Power Systems
- EST 4158C Linear Integrated Circuits
- ETI 3116 Applied Engineering Quality Assurance
- EST 4227 Photonics Sensors

Upper Level Technical Electives
(C or better grades are required in all courses)

- EST 4259C Photonic Systems Analysis

Graduation:
- A grade of 2.0 or better is required in all prerequisites.

Related Programs: Electrical Engineering Technology (Computer Systems Concentration).
Related Minor: none

Transfer Notes:
- Students transferring from any Florida public institution with an AA-degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L can substitute for PHY 2053C.
UCF Degree Programs

ELEMENTARY EDUCATION (B.S.)

College of Education
Department of Teaching and Learning Principles,
ED 209
http://reach.ucf.edu/~elemed1
Program Coordinator: Dr. Rosie Webb Joels, ED 122-Q
407-823-2008
Email: rjoels@pegasus.cc.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e., an AA degree from an approved Florida community college or state university.
- Have a minimum 2.5 overall GPA.
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

Degree Requirements

- Students should see an advisor prior to registering for classes
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations (9 hrs)
     ENC 1101 Composition I
     ENC 1102 Composition II
     Select SPC 1600 Fundamentals of Oral Communication
   - B. Cultural-Historical Foundations (9 hrs)
     Select AMH 2010 U.S. History 1492-1877
     Select AMH 2020 U.S. History 1877-Present
     Select PHI 2010 Introduction to Philosophy
   - C. Mathematical Foundations
     Select MGF 1106 Finite Mathematics
     Select one: STA 1060C Basic Statistics using MS Excel or STA 2023C Principles of Statistics
   - D. Social Foundations
     Prefer POS 2041 American National Government
     Select PSY 2012 General Psychology
   - E. Science Foundations
     Prefer PSC 1121 Physical Science
     Select one: ANT 2051 The History of Art or MUL 2010 Enjoyment of Music or THE 2000 Theatre Survey or FIL 2400 History of Motion Pictures
   - F. Humanities (6 hrs)
     PHI 2010 Introduction to Philosophy
     Select one: ARH 2050 The History of Art I or ARH 2051 The History of Art II or MUL 2010 Enjoyment of Music or THE 2000 Theatre Survey or FIL 2400 History of Motion Pictures
   - G. Mathematics (9 hrs)
     MAC 1105 College Algebra
     MGF 1106 Finite Mathematics
     One of the following (per GEP)
     STA 1060C Basic Statistics using MS Excel or STA 2023C Principles of Statistics
   - H. Other Program Prerequisites (10 hrs)
     MAE 2801 Elementary School Mathematics

2. Common Program Prerequisites (29 hrs)
   - A. Communications (9 hrs)
     ENC 1101 Composition I
     ENC 1102 Composition II
     Select SPC 1600 Fundamentals of Oral Communication
   - B. Humanities (6 hrs)
     PHI 2010 Introduction to Philosophy
     Select one: ARH 2050 The History of Art I or ARH 2051 The History of Art II or MUL 2010 Enjoyment of Music or THE 2000 Theatre Survey or FIL 2400 History of Motion Pictures
   - C. Mathematical Foundations
     Select one: MAC 1105 College Algebra
     MGF 1106 Finite Mathematics
     One of the following (per GEP)
     STA 1060C Basic Statistics using MS Excel or STA 2023C Principles of Statistics
   - D. Science (12 hrs)
     AMH 2010 U.S. History 1492-1877
     AMH 2020 U.S. History 1877-Present
     POS 2041 American National Government
     PSY 2012 General Psychology
   - E. Science
     Select one: PHY 2053 General Physics or PHY 2054 General Physics
     Select one: PHY 2110 Calculus and Analytical Geometry I or MTH 2101 Calculus I or PHY 2053 General Physics or PHY 2054 General Physics or PHY 2110 Calculus and Analytical Geometry I or MTH 2101 Calculus I
     Select one: AST 2001 Astronomy or GEO 2010 Physical Geography

3. Recommended Sequence of Program Courses

NOTE: This recommended sequence may vary at selected regional campuses.

Semester I (15 hrs)
- EDG 4323 Professional Teaching Practices
- EDF 4214 Classroom Learning Principles
- LAE 3414 Children’s Literature
- RED 3012 Foundations of Reading
- TSL 4080 Theory and Practice of Teaching ESOL

Semester II (Internship Block) (12 hrs)
- RED 4519 Diagnostic & Corrective Reading Strategies
- MAE 4326 How Children Learn Math
- EEX 4003 Teaching/Management Tech Ex Ed Student in the Regular Setting
- EDE 3942 Internship I

Semester III (15 hrs)
- SCS 3310 Teaching Science in the Elementary School
- SSE 3312 Teaching Social Science in the Elem School
- LAE 4314 Teaching Language Arts in the Elementary School
- ARE 4313 Teaching Art in the Elementary School
- DED 4519 Diagnostic & Corrective Reading Strategies

Semester IV (12 hrs)
- EDE 4943 Internship II
- EDF 4214 Classroom Learning Principles
- LAE 3414 Children’s Literature
- RED 3012 Foundations of Reading
- TSL 4080 Theory and Practice of Teaching ESOL

4. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

5. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-6.065
6. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

7. Total Semester Hours Required 128 hours

8. Recommended Four-Year Sequence of Courses

**Freshman Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>(12 hrs)</th>
<th>Spring</th>
<th>(16 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 2005</td>
<td>3 hrs</td>
<td>ENC 1101</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>3 hrs</td>
<td>ENC 1102</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGF 1106</td>
<td>3 hrs</td>
<td>MAC 1105</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHI 2010</td>
<td>3 hrs</td>
<td>PSY 2012</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PSC 1121</td>
<td>2 hrs</td>
<td>PSC 1121L</td>
<td>1 hr</td>
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</table>

**Summer** (6 hrs)

| AST 2002 | 3 hrs |
| POS 2041 | 3 hrs |

**Sophomore Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>(15 hrs)</th>
<th>Spring</th>
<th>(16 hrs)</th>
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</thead>
<tbody>
<tr>
<td>AMH 2010</td>
<td>3 hrs</td>
<td>AMH 2020</td>
<td>3 hrs</td>
</tr>
<tr>
<td>BSC 1005</td>
<td>3 hrs</td>
<td>MAE 2801</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EME 2040</td>
<td>3 hrs</td>
<td>STA 2014C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPC 1600</td>
<td>3 hrs</td>
<td>Arts &amp; Scncs elective</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ARH 2050 or</td>
<td>3 hrs</td>
<td>Arts &amp; Scncs elective</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MUL 2010 or</td>
<td>3 hrs</td>
<td>THE 2000 or</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIL 2400</td>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Junior Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>(15 hrs)</th>
<th>Spring</th>
<th>(12 hrs)</th>
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</thead>
<tbody>
<tr>
<td>See Section 3, Semester I above</td>
<td></td>
<td>See Section 3, Semester II, above</td>
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</tr>
</tbody>
</table>

**Senior Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>(15 hrs)</th>
<th>Spring</th>
<th>(12 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Section 3, Semester III above</td>
<td></td>
<td>See Section 3, Semester IV above</td>
<td></td>
</tr>
</tbody>
</table>

**ENGINEERING TECHNOLOGY - DESIGNS CONCENTRATION (B.S.E.T.)**

**College of Engineering and Computer Science**

**Engineering Technology (ENT) Department, ENGR 207**

http://www.ent.ucf.edu

Coordinator: Lucy Morse 407-823-4742, Fax: 407-823-4746

**Admission Requirements**

- none

**Degree Requirements**

- Students should check with their ENT advisor frequently to assure that they are making progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (36+2 hrs)

<table>
<thead>
<tr>
<th>A. Communication Foundations</th>
<th>9 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. ENC 1101 &amp; ENC 1102</td>
<td></td>
</tr>
<tr>
<td>2. Prefer SPC 1016</td>
<td></td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>1. Select MAC 1105</td>
<td></td>
</tr>
<tr>
<td>2. Select STA 2023</td>
<td></td>
</tr>
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</table>

2. Common Program Prerequisites (CPP) (6/8 hrs)

<table>
<thead>
<tr>
<th>(C or better grades are required in all courses)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2253 or</td>
</tr>
<tr>
<td>MAC 2311</td>
</tr>
<tr>
<td>MAC 2544 or</td>
</tr>
<tr>
<td>MAC 2512</td>
</tr>
<tr>
<td>PHY 2053C or</td>
</tr>
<tr>
<td>PHY 2048L</td>
</tr>
</tbody>
</table>

3. Engineering Technology Core Requirements (21 hrs)

<table>
<thead>
<tr>
<th>(C or better grades are required in all courses)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 2511, BSC 1005, BSC 1050, GEO 1200,</td>
</tr>
<tr>
<td>MAC 2370 or</td>
</tr>
<tr>
<td>MAC 1114</td>
</tr>
<tr>
<td>MAC 2253 or</td>
</tr>
<tr>
<td>MAC 2311</td>
</tr>
<tr>
<td>MUL 2010 or</td>
</tr>
<tr>
<td>ENC 3241</td>
</tr>
<tr>
<td>MAC 1105</td>
</tr>
<tr>
<td>MAC 1114</td>
</tr>
<tr>
<td>MAC 2253 or</td>
</tr>
<tr>
<td>PHY 2053C or</td>
</tr>
<tr>
<td>PHY 2048L</td>
</tr>
</tbody>
</table>

4. Technical Specialization (60 hrs)

<table>
<thead>
<tr>
<th>C or better grades are required in all courses except lower level technical electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Level Required and Elective Courses (28 hrs)</td>
</tr>
<tr>
<td>EST 3543C Programmable Logic Controllers</td>
</tr>
<tr>
<td>CHM 1032, 1032L General Chemistry, Lab</td>
</tr>
<tr>
<td>CET 2364 Systems Application in C</td>
</tr>
<tr>
<td>EET 3085C Electricity and Electronics</td>
</tr>
<tr>
<td>EGN 1111C Engr Computer Graphics</td>
</tr>
<tr>
<td>STA 2023 Statistical Methods I</td>
</tr>
<tr>
<td>Approved Lower Level Technical Electives</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upper Level Required Courses (21 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EST 4502C Metrology &amp; Instrumentation</td>
</tr>
<tr>
<td>ETA 3300C Applied CADD</td>
</tr>
<tr>
<td>ETA 3533C Applied Engrr Strength of Materials</td>
</tr>
<tr>
<td>ETA 3421 Materials &amp; Processes</td>
</tr>
<tr>
<td>ETM 4220 Applied Energy Systems</td>
</tr>
<tr>
<td>ETA 4448 Applied Project Management</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upper Level Technical Elective (Select 4) (12 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETC 4206 Construction Estimating</td>
</tr>
<tr>
<td>ETC 4241C Construction Materials &amp; Methods</td>
</tr>
<tr>
<td>ETC 4242 Construction Contracts &amp; Spec</td>
</tr>
<tr>
<td>ETC 4243 Building Systems</td>
</tr>
<tr>
<td>ETC 4414C Applied Structural Design I</td>
</tr>
<tr>
<td>ETC 4415C Applied Structural Design II</td>
</tr>
<tr>
<td>ETM 4331C Applied Fluid Mechanics</td>
</tr>
<tr>
<td>ETM 4512C Applied Design of Machine Elements</td>
</tr>
<tr>
<td>ETC 3418C Computer Numerical Controls</td>
</tr>
<tr>
<td>ETC 4232C Applied Heat Transfer</td>
</tr>
<tr>
<td>ETM 4755 Applied Air Conditioning</td>
</tr>
</tbody>
</table>

5. Departmental Graduation Requirement (3 hrs)

- ETEG 4560C Senior Design Project | 3 hrs |
- A grade of 2.0 or better is required in all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

- Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficien-
- y exam) prior to graduation.

- Graduation: none

7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements

ENGINEERING TECHNOLOGY - OPERATIONS CONCENTRATION (B.S.E.T.)

College of Engineering and Computer Science
Engineering Technology (ENT) Department, ENGR 207
http://www.ent.ucf.edu
Coordinator: Lucy Morse
407-823-4742, Fax: 407-823-4746

Admission Requirements: none

Degree Requirements:

- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (36+2 hrs)

A. Communication Foundations
   1. ENC 1101 & ENC 1102

B. Cultural and Historical Foundations
   6 hrs
   1. Select MAC 1105
   2. select STA 2023

C. Mathematical Foundations
   6 hrs

D. Social Foundations
   6 hrs

E. Science Foundations
   0 hrs
   1. Select PHY 2053C
   2. ANT 2011, BSC 1105, BSC 1050, GLY 1030, GEO 1200 or MCB 1310

2. Common Program Prerequisites (CPP) (6/8 hrs)

(C or better grades are required in all courses)

MAC 2233 or Calculus I

MAC 2231

MAC 2242 or Calculus II or equiv

MAC 2293

PHY 2053C or PHY 2048L

3. Engineering Technology Core Requirements (21 hrs)

ANT 2011, BSC 1050, BSC 1050, GEO 1200, GEO 2370, or GLY 1030

ENG 3241

MAC 1105 College Algebra

MAC 1114 College Trigonometry

MAC 2253 Calculus I or

MAC 2311

MAP 3401 Problem Analysis or

MAC 2312 Calculus II

PHY 2053C

ENG 3541 Computer Applications

ENG 3651C Computer Applications

ENG 3701 Technical Economic Analysis

ENG 3711 Applied Engineering Quality Assurance

ENG 4635 Technology Administration

4. Technical Specialization (60 hrs)

(C or better grades are required in all courses except the lower level technical electives)

Lower Level Required and Elective Courses (28 hrs)

EST 3543C Programmable Logic Controllers

CHM 1032, 1032L General Chemistry, Lab

CET 2364 Systems Application in C

ENG 3095C Electricity and Electronics

EGN 1111C Eng Computer Graphics

STA 2032 Statistical Methods I

Approved Lower Level Technical Electives (11 hrs)

Upper Level Required Courses (16 hrs)

ETI 4640 Operations Management

ETI 3350C Applied CADD

ETI 3421 Materials & Processes

ETM 4220 Applied Energy Systems

ETI 4448 Applied Project Management

Upper Level Technical Elective (Select 5) (17 hrs)

ETI 3690 Technical Sales

ETI 4166 Applied Reliability

ETI 4205 Applied Logistics

ETG 3533C Applied Engineering Strength of Materials

ETI 4661C Applied Facilities Planning & Design

ETI 4710 Occupational Safety

ETI 4502C Metrology & Instrumentation

ETM 4331C Applied Fluid Mechanics

ETI 3418C Computer Numerical Controls

5. Departmental Graduation Requirement (3 hrs)

ETG 4950C Senior Design Project

A grade of 2.0 or better is required for all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none
7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hours

Related Programs: Engineering Technology (Operations Concentration).
Related Minors: none

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly scheduled 3000- or 4000-level courses taken from the UCF ENT Department.
- PHY 2048/L and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

Tentative Course Schedule for the Operations Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year

Fall: 13/14 hrs
- MAC 2253/2311 Calculus I
- PHY 2053C/2048 Physics I
- ETI 3651C Comp Appl
- ETI 4640 Operations Mgmt

Spring: 13 hrs
- MAP 3401 Problem Analysis
- ETG 3341 Mechanics
- ETI 4620 Energy Systems
- ETI 4625 Tech Admin

Summer: 10 hrs
- ETI 4700 Occup Safety
- ETM 4331C Appl Fluid Mech
- ETI 4448 Applied Proj Mgmt

Senior Year

Fall: 15 hrs
- ETI 3421 Matrls & Process
- ETI 4205 App Logistics
- ETD 3350C Appl CAD
- ETI 3116 Appl Engr Qual Assur
- ETI 3671 Tech Econ Anal

Spring: 13 hrs
- ENC 3241 Tech Report Writ
- ETG 4590 Sr Design Proj
- ETI Elective
- ETG 3533C Eng Strength Mat'ls

Upper Level Technical Electives

- EST 3222 Intro to Photonics
- EST 4502C Metrology & Instrumentation
- ETI 4505C Prog Logic Controllers
- ETD 3350C Applied CADD
- ETG 3533C Applied Engineering Strength of Materials
- ETI 4835 Rocket Propulsion Technology
- ETI 4836 Space Systems Technology
- EST 4837C Technology of Small Space Payloads
- ETI 4838C Launch Processing Technology
- ETI 4839 Space Electro-Optics Technology
- ETI 4850 Spacecraft QA and Testing
- ETI 4881 Ground System Design
- EST 3222 Intro to Photonics

1. UCF General Education Program (36+2 hrs)

- A. Communication Foundations
  - 9 hrs
  - 1. ENC 1101, ENC 1102
  - 3. MAC 2311
  - 2. Prefer SPC 1016

- B. Cultural and Historical Foundations
  - 9 hrs
  - 1. Select MAC 1105
  - 2. select STA 2023

- C. Mathematical Foundations
  - 6 hrs
  - 1. Select MAC 1114

- D. Social Foundations
  - 6 hrs
  - 1. Select PHY 2053C or PHY 2048
  - 2. ANT 2111, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310

- E. Science Foundations
  - 8 hrs
  - 1. Select PHY 2053C or PHY 2048

2. Common Program Prerequisites (CPP) (6/8 hrs)

(C or better grades are required in all courses)

- MAC 2253 or MAC 2254 or MAC 2311
- MAP 3401 or MAC 2312
- PHY 2053C or PHY 2048/L

3. Engineering Technology Core Requirements (24 hrs)

(Associate in Engineering Technology (Operations Concentration).

- 1. ENC 1101, ENC 1102
- 2. prefer SPC 1016
- 3. STA 2023
- 4. MAC 2311
- 5. MAP 3401
- 6. MAC 2312
- 7. PHY 2053C

4. Technical Specialization (57 hrs)

(C or better grades are required in all courses except lower level technical electives)

- EST 4502C
- ETI 4505C
- ETD 3350C
- ETG 3533C
- ETI 4835
- ETI 4836
- EST 4837C
- ETI 4838C
- ETI 4839
- ETI 4850
- ETI 4881
- ETI 4883
- EST 3222

Lower Level Required and Elective Courses (24 hrs)

- EST 4502C
- ETI 4505C
- ETD 3350C
- ETG 3533C
- ETI 4835
- ETI 4836
- EST 4837C
- ETI 4838C
- ETI 4839
- ETI 4850
- ETI 4881
- ETI 4883
- EST 3222

Approved Lower Level Technical Electives (8 hrs)

- EST 4502C
- ETI 4505C
- ETD 3350C
- ETG 3533C
- ETI 4835
- ETI 4836
- EST 4837C
- ETI 4838C
- ETI 4839
- ETI 4850
- ETI 4881
- ETI 4883

Upper Level Required and Elective Courses (21 hrs)

- EST 4502C
- ETI 4505C
- ETD 3350C
- ETG 3533C
- ETI 4835
- ETI 4836
- EST 4837C
- ETI 4838C
- ETI 4839
- ETI 4850
- ETI 4881
- ETI 4883

Upper Level Technical Electives (Select 4) (12 hrs)

- EST 4502C
- ETI 4505C
- ETD 3350C
- ETG 3533C
- ETI 4835
- ETI 4836
- EST 4837C
- ETI 4838C
- ETI 4839
- ETI 4850
- ETI 4881
- ETI 4883

Related Minors: none

Related Programs: Engineering Technology (Operations Concentration).

Transfer Notes:

- Courses transferred must be formally evaluated for equivalency credit.

Degree Requirements:

- Students should check with the ENT advisor frequently to insure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.
UCF Degree Programs

5. Departmental Graduation Requirement  (3 hrs)
(C or better grades are required in all courses)
ETG 4950C Senior Design Project  3 hrs
A grade of 2.0 or better is required for all prerequisites.

6. Foreign Language Requirements  (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

7. Approved Technical Electives
Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required  128 hours

Related Programs: Engineering Technology (Operations Concentration).
Related Minors: none
Transfer Notes:
- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly scheduled 3000- or 4000-level courses taken from the UCF ENT Department.
- PHY 2048/L and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

Tentative Course Schedule for the Space Systems Concentration
The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year
Fall  15/16 hrs
MAC 2233/2231 Calculus I  3 hrs
ETD 3350C Appl CAD  3 hrs
ETI 3116 App Eng Qual Assur  3 hrs
EST 3943C Prog Log Control  3 hrs
ETI 4835 Space Systems Tech  3 hrs

Spring  14 hrs
MAC 2233/2231 Calculus I  3 hrs
ETD 3350C Appl CAD  3 hrs
ETI 3116 App Eng Qual Assur  3 hrs
EST 3943C Prog Log Control  3 hrs
ETI 4835 Space Systems Tech  3 hrs

Summer  8 hrs
ENC 3241 Tech Report Writing  3 hrs
ETI 3671 Tech Econ Analysis  2 hrs
ETI Elective  3 hrs

Senior Year
Fall  13 hrs
ETI 3671 Tech Econ Analysis  3 hrs
ETI Elective  3 hrs
ETI Elective  3 hrs
ETI Elective  3 hrs

Spring  13 hrs
ETI 3671 Tech Econ Analysis  3 hrs
ETI Elective  3 hrs
ETI Elective  3 hrs
ETI Elective  3 hrs

ENGLISH - CREATIVE WRITING (B.A.)
College of Arts and Humanities
English Department, CHH 301,
http://english.ucf.edu
E-mail: english@ucf.edu
T. Krise, 407-823-2212

Admission Requirements  none
Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students must earn at least a “C” (2.0) in each required course
- Co-op or internship credit cannot be used in the major without prior approval from the department
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

Admission Requirements  none
Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students must earn at least a “C” (2.0) in each required course
- Co-op or internship credit cannot be used in the major without prior approval from the department
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

Honors in English Degree: Additional Requirements(9 hrs)
Application and admission through the English Honors Committee and the Honors College
Fulfill University requirements for Honors in the Major
Grade of ÔBÔ (3.0) or better in 5000 level English elective (3 hrs)
Directed Readings (3 hrs), and Thesis hours (3 hrs).
Successful completion and oral defense of honors thesis

1. UCF General Education Program  (36 hrs)
A. Communication Foundations
Select ENC 1101 and ENC 1102  6 hrs
Prefer SPC 1600 Fund of Oral Com  3 hrs
B. Cultural and Historical Foundations
Select one class from 1.B.1 list  3 hrs
Prefer LIT 2110 World Literature I  3 hrs
Prefer LIT 2120 World Literature II  3 hrs
C. Mathematical Foundations
Select MGF 1106 Finite Mathematics  3 hrs
(may substitute a higher level math)
Prefer STA 1060C Statistics Using Excel  3 hrs
D. Social Foundations  6 hrs
E. Science Foundations  6 hrs

2. Common Program Prerequisites
ENC 1101* Composition I  GE
ENC 1102 *Composition II  GE
*See Transfer Notes for possible substitutes

3. Core Requirements  (6 hrs)
CRW 3013C Creative Writing for English Majors  3 hrs
ENGL 3041 Theory & Tech of Literary Study  3 hrs
This is a prerequisite for all 4000 level AML, ENG, ENL, or LIT courses

4. Literary History Requirement  (12 hrs)
Choose four courses from these two groupings
- A. Select at least one of these pre-1865 literature courses.
AML 3031 American Literature I
AML 3013 Narratives of Slavery
AML 4304 Whitman & Heirs
ENL 2012 English Literature I
ENL 4220 English Renaissance Poetry and Prose
ENL 4230 Eighteenth Century Studies

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8. Electives (variable)

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed

Total Semester Hours Required: 120 hours

Related Programs: Technical Writing, Literature

Related Minors: Linguistics, Technical Writing, Writing

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites to the BA in Creative Writing if taken prior to transferring to UCF:

- ENC 1101 & 1102: may use any two lower level courses, taught in the English department, and each having a 6,000 word requirement.
- ENC 1101 & 1102, however, are prerequisites for all subsequent English courses and will need to be taken for the major.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

- Fall: ENC 1101 Composition I 3
- Spring: ENC 1102 Composition II 3

Sophomore Year

- Fall: BSC 1005* req# 1E2-GEP 3
- Spring: ENC 1101* & 1102*: may use any two lower level courses, taught in the community college or state university equivalent, i.e. an AA degree from an approved Florida community college or state university

Junior Year

- Fall: ENC 1101 & 1102, however, are prerequisites for all subsequent English courses and will need to be taken for the major.

Senior Year

- Fall: ENC 1101 & 1102, however, are prerequisites for all subsequent English courses and will need to be taken for the major.

ENGLISH LANGUAGE ARTS EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles

ED 209: http://pegasus.cc.ucf.edu/~englae
Program Coordinator: Dr. Denise Ousley
ED 122-L, 407-823-1142
E-mail: dousley@mail.ucf.edu

Admission Requirements:
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university.
- Have a minimum 2.5 overall GPA.
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses.
Students should see an advisor prior to registering for classes.

UCF Degree Requirements:

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
   - ENC 1101 Composition I 3 hrs
   - ENC 1102 Composition II 3 hrs
   - Select SPC 1600 Fundamentals of Oral Communication 3 hrs
   B. Cultural-Historical Foundations (9 hrs)
   - Select AMH 2010 U.S. History 1492-1877 3 hrs
   - Select AMH 2020 U.S. History 1877-Present 3 hrs
   - Select PHI 2010 Introduction to Philosophy 3 hrs
   C. Mathematical Foundations (6 hrs)
   - Prefer MGF 1106 Finite Mathematics 3 hrs
   - Select one: 3 hrs
   - STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics 3 hrs
   D. Social Foundations (6 hrs)
   - Prefer POS 2041 American National Government 3 hrs
   - Select PSY 2012 General Psychology 3 hrs
   E. Science Foundations (6 hrs)
   - Prefer PSC 1121 Physical Science 3 hrs
   - Select one: 3 hrs
   - ANT 2511 The Human Species or BSC 1005 Biological Principles 3 hrs

   Note: See laboratory component under Section 2.

2. Common Program Prerequisites (25 hrs)
   A. Communications (9 hrs)
   - ENC 1101 Composition I
   - ENC 1102 Composition II
   - SPC 1600 Fundamentals of Oral Communication
   B. Humanities (6 hrs)
   - PHI 2010 Introduction to Philosophy
   - Select one: 3 hrs
   - ARH 2505 History of Western Art I or ARH 2506 History of Western Art II or MUL 2010 Enjoyment of Music or THE 2000 Theatre Survey or FIL 2400 History of Motion Pictures
   C. Mathematics (9 hrs)
   - MAC 1105 College Algebra 3 hrs
   - MGF 1106 Finite Mathematics 3 hrs
   - One of the following (per GEP) 3 hrs
   - STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics
   D. Social Science/History (12 hrs)
   - AMH 2010 U.S. History 1492-1877
   - AMH 2020 U.S. History 1877-Present
   - POS 2041 American National Government
   - PSY 2012 General Psychology
   E. Science (9 hrs + lab)
   - PSC 1121 Physical Science
   - One of the following (per GEP) 3 hrs
   - ANT 2511 The Human Species or BSC 1005 Biological Principles
   - Select one: 3 hrs
   - AST 2002 Astronomy
   - GEO 1200 Physical Geography
   - GLY 1030 Geology and its Applications
   - Select one associated science lab: 1 hr
   - BSC 1005L Biological Principles Laboratory or PSC 1121L Physical Science Laboratory
   F. Education Courses (9 hrs)
   - EDF 2005 Introduction to Education
   - EDS 2701 Teaching Diverse Populations
   - EME 2040 Technology for Educators
   G. Diversity Courses (3 hrs)
   - Select one: 3 hrs
   - ENL 1011 World Literature I or ENL 2110 World Literature II
   - AML 3031 American Literature I
   - AML 3041 American Literature II

3. Specialization Requirements (24 hrs)
   - ENL 2112 English Language I to 1798
   - ENL 2122 English Language II to 1950
   - LIT 2110 World Literature I
   - LIT 2120 World Literature II
   - AML 3031 American Literature I
   - AML 3041 American Literature II

4. Education Core Requirements (15 hrs)
   - *EDG 4323 Professional Teaching Practices 3 hrs
   - EDF 4214 Classroom Learning Principles 3 hrs
   - *TSL 4080 Theory and Practice of Teaching ESOL 3 hrs
   - Select PSY 2012 General Psychology 3 hrs
   - Select POS 2041 American National Government 3 hrs
   - Select ENL 2012 English Literature I to 1798 3 hrs
   - Select ENL 2022 English Literature II to 1950 3 hrs
   - Select PHI 2010 Introduction to Philosophy 3 hrs
   - Select SPC 1121 Physical Science 3 hrs
   - Select T 3140 Issues in Second Language Acquisition 3 hrs

5. Program Core Requirements (13 hrs)
   - *LAE 4464 Adolescent Lit 3 hrs
   - LAE 4361 Literacy Strategies for Mid/High Schools 3 hrs
   - LAE 4360 Eng Instructional Analysis 4 hrs
   - LAE 4342 Teaching Lang/Comp 3 hrs

6. Internship I (ESE 3940) (3 hrs)
   - Course prerequisite: EDG 4323 (Minimum grade: "C-" )
   - Additional program prerequisites for Internship I: EDG 4323, EDF 4214, LAE 4464, TSL 4080 (Minimum grade: "C-" in each of these courses)
   - Corequisites: LAE 4360 and LAE 4342
   - See additional requirements under College of Education, Office of Clinical Experiences

7. Internship II (ESE 4943) (12 hrs)
   - All methods courses and at least 80% of all specialization courses must be completed before registering for Internship II
   - See additional requirements under College of Education, Office of Clinical Experiences
   - Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.065

8. Foreign Language Requirements (0-8 hrs)
   - State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

9. Departmental Exit Requirements
   - Achieve a minimum 2.5 GPA in all courses within the major.
   - Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
   - Complete a TESOL notebook as required for ESOL Endorsement.
   - Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements
    - A 2.0 UCF GPA
    - 60 semester hours earned after CLEP awarded
    - 48 semester hours of upper division credit completed
    - 30 of the last 36 hours of course work must be completed in residence at UCF
    - 25% of course work must be completed in residency at UCF
    - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

11. Total Semester Hours Required 128 hours
    - At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

12. Recommended Four-Year Sequence of Courses
    - Fall (12 hrs) Spring (16 hrs)
      - ENL 2105 3 hrs EDF 2005 3 hrs
      - ENL 2112 3 hrs EDS 2701 3 hrs
      - LIT 2120 3 hrs ENL 1011 3 hrs
      - MGF 1106 3 hrs ENL 2110 3 hrs
      - Reference Year
        - Students should see an advisor prior to registering for classes.
PSY 2012  3 hrs  PHI 2010  3 hrs  C. Mathematical Foundations
PSC 1121  3 hrs  Select MGF 1106 Finite Mathematics
PSC 1121L  1 hr  (may substitute a higher level math)

Cultural and Historical Foundations

1. UCF General Education Program (36 hrs)

Grade of "B" (3.0) or better in 5000 level English elective (3 hrs),
Fulfill University requirements for Honors in the Major
Application and admission through the English Honors Committee

Additional Requirements (9 hrs)

Honors in English Degree:

Courses designated in 1 (General Education Program) and 2
Course- Gateway Courses

2. Common Program Prerequisites

ENC 1101*Composition I  GEP
ENC 1102*Composition II  GEP

3. Core- Gateway Courses (6 hrs)

a. Prerequisite for all 4000 level AML, ENG, ENL, or LIT courses
b. Choose one gateway course:

4. Literary History Requirement (15 hrs)

Choose five courses from the two groupings
a. Select at least two of these pre-1865 literature courses,
    a. Prerequisite for all 4000 level AML, ENG, ENL, or LIT courses
b. Select at least two of these post 1865 literature courses
b. Choose one linguistics or theory course: 3 hrs

5. Upper Division Requirements (15 hrs)

a. Choose one single author or major author course
b. Choose three upper level courses : 9 hrs
    a. Choose one single author or major author course
    b. Choose one gateway course: 3 hrs

Honors in English Degree:

Additional Requirements (9 hrs)

Application and admission through the English Honors Committee
and the Honors College

Graduation: Proficiency equivalent to three semesters of college

Graduation:

Note: Each semester, additional courses may satisfy this requirement.
Check with advisor for details.

ENGLISH - LITERATURE (B.A.)
College of Arts and Humanities
English Department, CNH 301, http://english.ucf.edu
E-mail: english@ucf.edu
T. Krise, 407-823-2212

Admission Requirements

Degree Requirements

- Students who change degree programs and select this major
  must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each required course
- Co-op or internship credit is not accepted in the major
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15
  semester hours of regularly scheduled 3000-4000 level courses
  taken from the UCF English Department
- Courses designated in 1 (General Education Program) and 2
  (Common Program Prerequisites) are usually completed in the
  first 60 hours

Honors in English Degree:

Additional Requirements (9 hrs)

Application and admission through the English Honors Committee
and the Honors College

Fulfill University requirements for Honors in the Major
Grade of OBO (3.0) or better in 5000 level English elective (3 hrs),
Directed Readings (3 hrs), and Thesis hours (3 hrs).
Successful completion and oral defense of honors thesis

1. UCF General Education Program (36 hrs)

A. Communication Foundations

Select ENC 1101 and ENC 1102
Prefer SPC 1600 Fund of Oral Com

B. Cultural and Historical Foundations

Select one class from 1.B.1 list
Prefer LIT 2110 World Literature I
Prefer LIT 2120 World Literature II

5. Upper Division Requirements (15 hrs)

a. Choose one single author or major author course
b. Choose three upper level courses : 9 hrs

6. Departmental Exit Requirements

Maintain a minimum GPA of 2.0 in upper division required courses.
Computer Competency met by completion of ENG 3014.

7. Foreign Language Requirements

Admission: Met by graduation requirement
Graduation: Proficiency equivalent to three semesters of college
8. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hours

Related Programs: Creative Writing, Technical Writing
Related Minors: Creative Writing, Linguistics, Technical Writing, Writing

Transfer Notes:
Courses taken at community colleges do not substitute for Upper Division courses.
Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites to the BA in Literature if taken prior to transferring to UCF:
ENC 1101* & 1102*: may use any two lower level courses, taught in English, in place of these.
With departmental approval, a cultural/multicultural or related course in another department may be used to meet the requirement.
Languages and Literatures or Judaic Studies.  Standardized exam

Suggested Plan of Study:
One of numerous possible plans of study. See program description for supporting information.

Freshman Year

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<th>Spring</th>
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<tr>
<td>ENC 1101 Composition I</td>
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<td>HUM 2210* req# 1B1-GEP</td>
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<td>MGF 1106* req# 1L1-GEP</td>
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<td>POS 2041* req# 1D1-GEP</td>
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Sophomore Year

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<td>LIT 2120 World Lit II</td>
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<td>PSY 2012* req# 1D2-GEP</td>
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<td>SPN 1121* req# Lang/Elec</td>
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Junior Year

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<td>LIN 4100* req# 5b-UD</td>
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<td>Elective* Check restrictions</td>
<td>3</td>
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<td>Senior Year</td>
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<tr>
<td>ENL 4253* req# 5c-UD</td>
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<td>Elective* Check restrictions</td>
<td>3</td>
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<tr>
<td>Elective* Check restrictions</td>
<td>3</td>
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Admission Requirements:
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

Degree Requirements
Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students
The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University System should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations

1. ENC 1101 & ENC 1102
2. Prefer SPC 1016

B. Cultural and Historical Foundations

1. Select two courses from Historical Foundations
2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FI 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120

C. Mathematical Foundations

1. Select MAC 2311 (PR: MAC 1114)
2. Select STA 3032 (PR: MAC 2312)

D. Social Foundations

1. Prefer ECO 2013 or ECO 2023
2. ANTH 2000, PSY 2012, or SYG 2000

E. Science Foundations

7 hrs
1. Select PHY 2048/48L (PR: MAC 2311)
2. Prefer GEO 1000

(Note: Environmental Engineering Majors must satisfy both an Earth Science requirement AND a Biological Science requirement.)

2. Common Program Prerequisites (CPP's)
These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

3. Courses Required for the Major (57 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do satisfy major requirements and normally are awarded grades of I, S, or U.

Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.
Choose three of the following:

- ENL 2012 English Literature I
- ENL 2022 English Literature II
- AML 3031 American Literature I
- AML 3041 American Literature II

45. Core requirements-Advanced (18 hrs)

ENC 4280 Technical Writing Style 3 hrs
ENC 3311 Advanced Expository Writing 3 hrs
ENC 4293 Technical Documentation and Collaborative Process 3 hrs
ENC 4294 Technical Documentation II 3 hrs
ENC 4295 Technical Documentation III 3 hrs
ENC 4215 Visual Elements in Documentation 3 hrs
ENC 4280 Technical Writing Style 3 hrs
LIT 4433 Technical and Scientific Literature 3 hrs
ENC 4215 The Visual in Technical Communication 3 hrs

56. Restricted Upper Division Electives (3 hrs)
Choose one of the following:

- ENC 3313 Advanced Expository Writing
- ENC 4262 International Technical Communication
- ENC 4290 Usability Testing for Technical Communication
- ENC 4414 Studies in Writing and Hypertext
- ENC 4xxx Contemporary Critical Issues in Technical Writing
- ENC 4262 International Technical Communication
- ENC 4265 Writing for the Computer Industry

Optional course

- ENC 4941 Tech Writing & Editing Internship

67. Departmental Exit Requirements
- Maintain a minimum GPA of 2.0 in upper division required courses
- Computer Competency met by completion of ENC 4293

78. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement
Graduation: Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.
UCF Degree Programs

EGN 3943 Thermodynamics 3 hrs
EGN 3613 Engineering Economic Analysis 2 hrs
EGN 3373 Principles of Electrical Engineering 3 hrs
CCE 4003 Intro to the Construction Industry 3 hrs
ENV 3001 Intro to Environmental Engineering 3 hrs
STA 3032 Probability & Statistics for Engineers GEP
CWR 3201C Engineering Fluid Mechanics 3 hrs
CWR 4101C Hydrology 3 hrs
CWR 4203C Hydraulics 3 hrs
EES 4111C Biological Process Control 3 hrs
EES 4202C Chemical Process Control 3 hrs
ENV 4120 Air Pollution Control 3 hrs
ENV 4341 Solid Waste Management 3 hrs
ENV 4561 Environmental Engrng-Process Design 4 hrs
ENV 4563 Environmental Control Systems 3 hrs

Notes: Environmental engineering majors must complete both Earth Science and Biological Science coursework. See assigned academic advisor for list of approved courses.

4. Approved Technical Electives (8 hrs)
Technical electives are available in the BEnvE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)
- Approved EnvE Design Course I 3 hrs
- Approved EnvE Design Course II 3 hrs
- Earn a minimum graduating GPA of 2.250 in the Major Courses from item 3. above, the technical electives from item 4. above, and the Approved EnvE Design Courses.
- EnvE students must take the Fundamentals of Engineering Exam during their Senior year.

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. University Minimum Graduation Requirements
- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residence at UCF.
- 25% of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Chemistry, Civil Engineering.

Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen
The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Environmental Engineering - 128 semester hours required

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Fall</th>
<th>14 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
</tr>
</thead>
</table>
*ENC 1101 English Comp I 3 | ENC 1102 English Comp II 3 |        |        |
*MAC 2311 Calc w/Analy Geo I 4 | *MAC 2312 Calc w/Analy Geo II 4 |        |        |
*ECE 2023 Microelectronics 3 | *PHY 2409L Phys Engr I wlab 3 |        |        |
*ECE 2023 Microelectronics 3 | *Earth Science 3 |        |        |
*HFT 2750 The Event Industry 3 | | | |

SECOND YEAR

<table>
<thead>
<tr>
<th>Fall</th>
<th>16 hrs</th>
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<th>17 hrs</th>
</tr>
</thead>
</table>
*MAC 2313 Calc w/Analy Geo III 4 | *MAP 2302 Diff Equations 3 |        |        |
*CHM 2045 Chemistry Funds I 4 | *CHM 2045L Chem Fund II/lab 4 |        |        |
*HUM/AMH/EUH I 3 | *PHY 2409L Phys Engr &Sci II 4 |        |        |
ENV 3130 Engr Anal-Statics 3 | *HUM/AMH/EUH II 3 |        |        |
ENV 3131 Engr'ng Econ Anal 3 | *TWA 3110 Introduction to Hospitality Management 1 |        |        |
*ENH 3001 Intro to Engr 1 | | | |

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
</tr>
</thead>
</table>
CWR 3201 Engr Fluid Mech 3 | CWR 4101C Hydrology 3 |        |        |
EGN 3331 Mech of Materials 3 | CWR 4203C Hydraulics 3 |        |        |
STA 3032 Probabl/Stats for Eng 3 | ENV 4120 Air Pollution Control 3 |        |        |
ENV 4341 Solid/Haz Waste 3 | *Cultural/Historical Elective 3 |        |        |
CCE 4003 Intro to Constr Indus 3 | *EGN 3373 Prin Elec Eng 3 |        |        |

**THIRD YEAR**

<table>
<thead>
<tr>
<th>Fall</th>
<th>13 hrs</th>
<th>Spring</th>
<th>14 hrs</th>
</tr>
</thead>
</table>
Technical Elective 3 | Approved Proj Design Course 3 |        |        |
ENV 4561 Process Design 3 | EES 4111C Biologed Proc Cntrl 3 |        |        |
EES 4202C Cheml Proc Control 3 | Technical Elective 3 |        |        |
Approved Proj Design Course 3 | Technical Elective 2 |        |        |
*ANT/PSY/SYG 3 | | | |

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

BS to PhD Program
The Environmental Engineering program offers the opportunity for exceptionally well qualified undergraduates to enter directly into the PhD program after completion of an appropriate BS degree. This option allows outstanding undergraduates to begin planning a research program with a specific faculty advisor even before finishing the BS, and may allow completion of the PhD in a shorter time period than by taking a separate Master's followed by the PhD.

ENVIRONMENTAL STUDIES TRACK
See Liberal Studies – Environmental Studies Track

EVENT MANAGEMENT (B.S.)
Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-903-8000
http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam

Degree Requirements
1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations 3 hrs
   Select MAC 1105 College Algebra 3 hrs
   Select CJS 2100CC Computer Fundamentals for Bus or STA 2033 Statistical Methods I 3 hrs
   D. Social Foundations 3 hrs
   Social Foundations 3 hrs
   Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics 3 hrs
   Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
   E. Science Foundation 6 hrs

2. Common Event Degree Requirements (6 hours)
   HFT 1000 Introduction to Hospitality Management 3 hrs
   HFT 2750 The Event Industry 3 hrs

3. Hospitality Management Core (25 hours)
**FOUR YEAR PLAN OF STUDY FOR EVENT MANAGEMENT***

**Freshman Year**

**Fall**
- ENC 1101 Composition I 3 hrs
- HFT 1000 Hospitality Marketing 3 hrs
- HFT 2220 Hospitality Human Resources 3 hrs
- HFT 2254 Lodging Operations 3 hrs
- HFT 3431 Hospitality Managerial Accounting 3 hrs
- HFT 3540 Guest Services Management 3 hrs
- HFT 3545 Hospitality Communications 3 hrs
- HFT 4286 Hospitality Industry Finance 3 hrs
- HFT 3933 Distinguished Hospitality Lectures 1 hr
- MAC 1105 Fundamentals of Oral Communication 3 hrs
- PSY 2013, SYG 2000 or ANT 2000 3 hrs

**Spring**
- ENC 1102 Writing and Rhetoric 3 hrs
- MAC 1106 Readings and Communication 3 hrs
- PSY 2013, SYG 2000 or ANT 2000 3 hrs
- SPC 1600C Fundamentals of Oral Communication 3 hrs

**Sophomore Year**

**Fall**
- ENC 1101 Composition I 3 hrs
- ENC 1102 Writing and Rhetoric 3 hrs
- ENC 2105 College Writing 3 hrs
- ENC 3102 Writing and Rhetoric 3 hrs
- ENC 3103 Research Writing 3 hrs
- MAC 1105 Fundamentals of Oral Communication 3 hrs
- PSY 2013, SYG 2000 or ANT 2000 3 hrs
- SPC 1600C Fundamentals of Oral Communication 3 hrs

**Spring**
- ENC 1102 Writing and Rhetoric 3 hrs
- ENC 2105 College Writing 3 hrs
- ENC 3102 Writing and Rhetoric 3 hrs
- ENC 3103 Research Writing 3 hrs
- ENC 3104 Creative Writing 3 hrs
- MAC 1106 Readings and Communication 3 hrs
- PSY 2013, SYG 2000 or ANT 2000 3 hrs
- SPC 1600C Fundamentals of Oral Communication 3 hrs

**Junior Year**

**Fall**
- ENC 1101 Composition I 3 hrs
- ENC 1102 Writing and Rhetoric 3 hrs
- ENC 2105 College Writing 3 hrs
- ENC 3102 Writing and Rhetoric 3 hrs
- ENC 3103 Research Writing 3 hrs
- ENC 3104 Creative Writing 3 hrs
- MAC 1106 Readings and Communication 3 hrs
- PSY 2013, SYG 2000 or ANT 2000 3 hrs
- SPC 1600C Fundamentals of Oral Communication 3 hrs

**Spring**
- ENC 1102 Writing and Rhetoric 3 hrs
- ENC 2105 College Writing 3 hrs
- ENC 3102 Writing and Rhetoric 3 hrs
- ENC 3103 Research Writing 3 hrs
- ENC 3104 Creative Writing 3 hrs
- MAC 1106 Readings and Communication 3 hrs
- PSY 2013, SYG 2000 or ANT 2000 3 hrs
- SPC 1600C Fundamentals of Oral Communication 3 hrs

**Senior Year**

**Fall**
- ENC 1101 Composition I 3 hrs
- ENC 1102 Writing and Rhetoric 3 hrs
- ENC 2105 College Writing 3 hrs
- ENC 3102 Writing and Rhetoric 3 hrs
- ENC 3103 Research Writing 3 hrs
- ENC 3104 Creative Writing 3 hrs
- MAC 1106 Readings and Communication 3 hrs
- PSY 2013, SYG 2000 or ANT 2000 3 hrs
- SPC 1600C Fundamentals of Oral Communication 3 hrs

**Spring**
- ENC 1102 Writing and Rhetoric 3 hrs
- ENC 2105 College Writing 3 hrs
- ENC 3102 Writing and Rhetoric 3 hrs
- ENC 3103 Research Writing 3 hrs
- ENC 3104 Creative Writing 3 hrs
- MAC 1106 Readings and Communication 3 hrs
- PSY 2013, SYG 2000 or ANT 2000 3 hrs
- SPC 1600C Fundamentals of Oral Communication 3 hrs

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**EXCEPTIONAL STUDENT EDUCATION (B.S.)**

**College of Education**

Department of Child, Family and Community Sciences

ED 209

http://www.education.ucf.edu/

Program Coordinator: Dr. Lee Cross

ED 315-N, 407-823-5477
E-mail: lcross@mail.ucf.edu

**Admission Requirements:**
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete common program prerequisite courses

**Degree Requirements:**
- Students should consult with an advisor prior to registration
- 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.

**1. UCF General Education Program**

**A. Communication Foundations**
- ENC 1101 Composition I 3 hrs
- ENC 1102 Composition II 3 hrs
- Select SPC 1600C Fundamentals of Oral Communication 3 hrs

**B. Cultural-Historical Foundations**
- Select AMH 2010 U.S. History 1492-1877 3 hrs
- Select AMH 2020 U.S. History 1877-Present 3 hrs
- Select PHI 2010 Introduction to Philosophy 3 hrs

**C. Mathematical Foundations**
- Select MGF 1106 Finite Mathematics 3 hrs
- Select STA 1060C Basic Statistics using MS Excel 3 hrs
- STA 2044C Principles of Statistics 3 hrs

**D. Social Foundations**
- Select POS 2041 American National Government 3 hrs
- Select POS 2051 American National Government 3 hrs
- Select STA 1060C Basic Statistics using MS Excel 3 hrs

**E. Science Foundations**
- Select PSC 1121 Physical Science 3 hrs
- Select STA 1060C Basic Statistics using MS Excel 3 hrs
- STA 2044C Principles of Statistics 3 hrs

**Note:** See laboratory component under Section 2.

**2. Common Program Prerequisites**

**15 hrs**

**A. Communication Foundations**
- ENC 1101 Composition I 3 hrs
- ENC 1102 Composition II 3 hrs
- Select SPC 1600C Fundamentals of Oral Communication 3 hrs

**B. Cultural-Historical Foundations**
- Select AMH 2010 U.S. History 1492-1877 3 hrs
- Select AMH 2020 U.S. History 1877-Present 3 hrs
- Select PHI 2010 Introduction to Philosophy 3 hrs

**C. Mathematical Foundations**
- Select MGF 1106 Finite Mathematics 3 hrs
- Select STA 1060C Basic Statistics using MS Excel 3 hrs
- STA 2044C Principles of Statistics 3 hrs

**D. Social Foundations**
- Select POS 2041 American National Government 3 hrs
- Select POS 2051 American National Government 3 hrs
- Select STA 1060C Basic Statistics using MS Excel 3 hrs

**E. Science Foundations**
- Select PSC 1121 Physical Science 3 hrs
- Select STA 1060C Basic Statistics using MS Excel 3 hrs
- STA 2044C Principles of Statistics 3 hrs

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### UCF Degree Programs

#### A. Communications (9 hrs)
- ENC 1101 Composition I
- ENC 1102 Composition II
- SPC 1000 Fundamentals of Oral Communication

#### B. Humanities (6 hrs)
- PHI 2010 Introduction to Philosophy
- Select one:
  - ARH 2050 The History of Art I or
  - MUL 2010 Enjoyment of Music or
  - THE 2000 Theatre Survey or
  - FIL 2400 History of Motion Pictures

#### C. Mathematics (9 hrs)
- MAC 1105 College Algebra
- MGF 1106 Finite Mathematics
- One of the following (per GEP)
  - STA 1060C Basic Statistics using MS Excel or
  - STA 1060D Basic Statistics

#### D. Social Science/History (12 hrs)
- AMH 2010 U.S. History 1492-1877
- AMH 2020 U.S. History 1877-Present
- POS 2041 American National Government
- PSY 2012 General Psychology
- Select one associated science lab:
  - BSC 1005L Biological Principles Laboratory
  - GLY 1030 Geology and its Applications
  - EEX 3842 Internship I

#### E. Science (9 hrs)
- Select one:
  - ARH 2050; ARH 2051; THE 2000; FIL 2400

#### F. Education Common Program Prerequisites (9 hrs)
- EDF 2005 Introduction to Education
- EDG 2701 Teaching Diverse Populations
- EME 2040 Technology for Educators

#### G. Diversity Courses GEP (3 hrs)
- Select one:
  - PHI 2010 Introduction to Philosophy
  - SPC 1600 Fundamentals of Oral Communication
  - ENC 1102 Composition II
  - ENC 1101 Composition I
- One of the following (per GEP):
  - ARH 2051 The History of Art II

#### H. Other Program Prerequisites (6 hrs)
- Students must select an additional six hours in courses in the following liberal arts and sciences areas:
  - communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences.

### 3. Exceptional Education (7 hrs)
#### Preprofessional Requirements
- Select one:
  - EED 4323 Professional Teaching Practices
  - EDF 4603 Analysis of Critical Issues in Education
  - EDF 4214 Classroom Learning Principles

#### Internship I Prerequisites:
The following courses must be taken before registering for Internship I. Students must be recommended by the faculty for Internship I.
- *EDG 4323 Professional Teaching Practices
- *RED 3012 Basic Foundations of Reading
- *EEX 2010 Orientation to Special Education
- *RED 4241 Methods of Academic Skills Ex Ed
- *TSL 4080 Theory and Practice of Teaching ESOL

### 5. Specialization Core Requirements (33 hrs)
- *RED 3012 Basic Foundations of Reading
- RED 4519 Diagnostic and Corrective Reading
- RED 4043 Content Reading K-12
- LAE 4314 Language Arts in Elem. Schools
- *TSL 4080 Theory and Practice of Teaching ESOL
- TSL 4141 Issues in Second Language Acquisition
- *EEX 3241 Methods of Academic Skills for Ex Students
- EEX 3221 Assessment of Ex Students
- EEX 4601 Intro to Behavior Management
- EEX 3243 Techniques for Ex Adolescents and Adults
- EEX 4753 Parent Professional Collaboration

*Internship I Prerequisites

### 6. Specialization (5 hrs)
#### Special Education
- EEX 4604 Application and Theories for Students

### 7. Foreign Language Requirements (0-8 hrs)
State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

### 8. Departmental Exit Requirements
- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Complete a TESOL notebook as required for ESOL Endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination.

### 9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### 10. Total Semester Hours Required
127 hrs

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

### 11. Recommended Four-Year Sequence of Courses

#### Freshman Year
<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>EDF 2005</td>
<td>EDG 2701</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>ENC 1102</td>
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<tr>
<td>MGF 1106</td>
<td>PSY 2012</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>Phi 2010</td>
</tr>
<tr>
<td>STA 1060C</td>
<td>PSC 1121</td>
</tr>
<tr>
<td></td>
<td>PSC 1121L</td>
</tr>
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#### Sophomore Year
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>AMH 2010</td>
<td>AMH 2020</td>
</tr>
<tr>
<td>BSC 1005</td>
<td>AST 2002</td>
</tr>
<tr>
<td>SPC 1600</td>
<td>*EEX 2010</td>
</tr>
<tr>
<td>STA 2014C</td>
<td>MAE 2801</td>
</tr>
<tr>
<td>Select one Arts &amp; Sciences elective</td>
<td>Select one of the following Fine Arts courses: ARH 2050; ARH 2051; MUL 2010; THE 2000; FIL 2400</td>
</tr>
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</table>

#### Junior Year
<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>EDF 4603*</td>
<td>EEX 3243</td>
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<td>EEX 4065*</td>
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#### Senior Year
<table>
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<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>EDF 4003</td>
<td></td>
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<tr>
<td>EEX 4065</td>
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</tbody>
</table>
### UCF Degree Programs

#### Film - B.F.A.

**College of Arts and Humanities**

**School of Film and Digital Media**

**Film Division, COM 121, 407-823-3456**


**E-mail:** film@mail.ucf.edu

**Division Head:** S. Schlow, 407-823-0694

### Limited Access Program

#### Admission Requirements

- The Film BFA major is a limited access program.
- Entrance into most Film classes is restricted to majors.
- Exceptions must be approved by Division Head.
- Applications to become a Film BFA major are required by December 15 for admission to the subsequent Fall term.
- A portfolio review is required for entry into the Film BFA major. Contact the Film Division for details.

#### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students are required to maintain an overall average grade of “B” (3.0) or better in Film major courses.
- Continuation in the Film Program requires a positive annual evaluation.
- A maximum of three credit hours of internship may be earned in one semester. A total of six credit hours of internship may be earned within the 120 credit hours required for graduation.
- Students must consult with a departmental advisor each semester.
- All students are required to pay a fee for equipment insurance.
- Departmental Residency Requirement consists of at least 48 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Division.
- Due to the conservative nature, the BFA demands a closely integrated curriculum. Therefore, transfers are not generally encouraged to pursue a BFA program. However, exceptionally talented students who have completed the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System may be admitted.
- Courses 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</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>EEX 3842</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>EEX 4941</td>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematics Foundations</td>
<td>EEX 4801</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select either I.B.1 or I.B.2</td>
<td>EEX 4753</td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>RED 4519</td>
<td>3 hrs</td>
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</table>

### 2. Common Program Prerequisites (3 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FIL 2200</td>
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### 3. Lower Level Core Requirements (18 hrs)

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<tbody>
<tr>
<td>FIL 2107</td>
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<tr>
<td>FIL 1009</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIL 2274C</td>
<td>3 hrs</td>
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<tr>
<td>FIL 2220</td>
<td>3 hrs</td>
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### 4. Upper Level Core Requirements (42 hrs)

<table>
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<tr>
<td>DIG 3001</td>
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<tr>
<td>FIL 3214</td>
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</tr>
<tr>
<td>FIL 3901C</td>
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<tr>
<td>FIL 3297</td>
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<tr>
<td>FIL 3402</td>
<td>3 hrs</td>
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<tr>
<td>FIL 3503C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIL 3941</td>
<td>9 hrs</td>
</tr>
</tbody>
</table>

### 5. Upper Level Restricted Electives (12 hrs)

Select four courses from the following. Must complete all core requirements before taking these courses. A maximum of six hours of Independent Study may be substituted with advisor’s prior approval.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FIL 3125</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIL 4111C</td>
<td>Feature/TV Writing</td>
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</table>

### 6. Capstone Courses (6 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FIL 4203C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIL 4211C</td>
<td>3 hrs</td>
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</tbody>
</table>

### 7. Departmental Exit Requirements

- A student must maintain an overall average of “B” (3.0) or better in major courses.
- Computer competency met by CGS 1060C or STA1060C.
- Department of Film requires taking an exit examination.

### 8. Foreign Language Requirements (0-8 hrs)

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

### 9. Electives (variable)

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.
Students must consult with a departmental advisor each semester.

A. Communication Foundations 9 hrs
1. UCF General Education Program (36 hrs)

Departmental Residency Requirement consists of at least 48 semester hours of credit earned at UCF.

A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.

Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required 120 hours

Related Programs: Animation, Art, Cinema Studies, Creative Writing, Digital Media, Music, Theatre, Radio/TV, World Cinema

Related Minors: Art, Cinema Studies, Creative Writing, Digital Media, Music, Theatre

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable substitutes for Common Program Prerequisites:
- FIL 2400 may substitute FIL 1001, but FIL 2400 is a prerequisite for subsequent Film courses and still must be taken.
- FIL 1007 may use any introductory film writing course. However, FIL 1007 is a prerequisite for all major courses and must be taken.

FILM - CINEMA STUDIES TRACK (B.A.)
College of Arts and Humanities
School of Film and Digital Media
Film Division, COM 121, 407-823-3456
http://www.film.ucf.edu
E-mail: film@mail.ucf.edu
Division Head: S. Schlow, 407-823-0694

Admission Requirements  None

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students are required to maintain an overall average of “B” (3.0) or better in major courses.
- Film production/directing classes are not open to Cinema Studies majors.
- Cinema Studies Track is not an entree into the BFA Film Program.
- Co-op or internship credit cannot be used in this major.
- Students must consult with a departmental advisor each semester.
- Departmental Residency Requirement consists of at least 48 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Division.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations
      Prefer one course from 1.B.1 list
      Prefer FIL2400
   C. Mathematical Foundations
      Select MGF 1106 (may substitute a higher level math)
      Prefer CGS 1060C or STA 1060C
   D. Social Foundations 6 hrs
      E. Science Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)
   FIL 2400* History of the Motion Pictures
   FIL 1007* Foundations of Story
   *see Transfer Notes for possible substitutes

3. Core Requirements (48 hrs)
   FIL 3001 Digital Media Principles 3 hrs

4. Restricted Upper Division Electives (9 hrs)
   Select three courses from the following upper level FIL courses:
   DIG 3855 Converging Media
   FIL 3259 Cinema Director
   FIL 3309 Women in Film
   FIL 3410 History of Animated Films
   FIL 3412 Black Cinema
   FIL 3511 French New Wave Cinema
   FIL 3512 Italian Neo-Realist Cinema
   FIL 3513 Latin American Cinema
   FIL 3514 International Cinema
   FIL 3520 Italian Film
   FIL 3521 French Film
   FIL 3522 German Film
   FIL 3542 Cinema Criticism (writing)
   FIL 3625 Independent Study
   FIL 5609 Film and Internet Business
   (a maximum of 6 hours Independent Study may be used)

5. Required Minor (18 hrs min)
   Must be taken outside the Film Department.

6. Departmental Exit Requirements
   - A student must maintain an overall average of “B” (3.0) or better in major courses.
   - Computer competency met by CGS1060 or STA1060C.

7. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement.
   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)
   Select primarily from upper division courses, with departmental advisor’s approval. May be outside of the department.

9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Animation, Art, Creative Writing, Film, Music, Theatre, Radio/TV

Related Minors: Art, Cinema Studies, Creative Writing, Music, Theatre

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for Common Program Prerequisites:
- FIL2400 may substitute FIL 1001, but FIL 2400 is a prerequisite for Common Program Prerequisites.
for subsequent Film courses and must still be taken.

- FIL 1007 may use any introductory course. However, FIL 1007 is a prerequisite for all Cinema Studies courses and must be taken.

**FILM - WORLD CINEMA TRACK (B.A.)**

College of Arts and Humanities

School of Film and Digital Media

Film Division, COM 121, 407-823-3456

http://www.film.ucf.edu

E-mail: film@mail.ucf.edu

Division Head: S. Schlow, 407-823-0694

Limited Access Program

Admission Requirements

- The Film - World Cinema track is a limited access program.
- Attain an overall minimum 2.5 GPA before applying.
- Students should apply to become Film majors only after completing all requirements for admission to the University.
- A portfolio and an interview are required for entry into the Film World Cinemas track.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students are required to maintain an overall average grade of “B” (3.0) or better in courses within the major.
- A maximum of three credit hours on internship may be earned in one semester. A total of six credit hours of internship may be earned within the 120 credit hours required for graduation.
- Students should consult with a departmental advisor.
- All students are required to pay a fee for equipment insurance.
- Departmental residency requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Department.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

   A. Communication Foundations
      - FIL 2400 History of Motion Pictures 3 hrs
      - FIL 1007* Foundations of Story 3 hrs
      *See transfer notes for possible substitutions

   B. Cultural and Historical Foundations
      - Prefer one course from 1.B.1 list
      - Prefer one course from 1.B.2 list
      - Prefer MGF 1106 (may substitute a higher level math)
      - STA 1060C

   C. Mathematical Foundations
      - Prefer one course from 1.B.1 or 1.B.2 list
      - Prefer one course from 1.B.1 list

2. Common Program Requirements (3 hrs)

   - FIL 2400 History of Motion Pictures 3 hrs
   - FIL 1007* Foundations of Story 3 hrs

3. Core Requirements (57 hrs)

   - DIG 3001 Digital Media Principles 3 hrs
   - FIL 1009 Cinematic Expression for Majors 3 hrs
   - FIL 2107 Script Analysis 3 hrs
   - FIL 2200 Cinematography I 3 hrs
   - FIL 2220 Directing I 3 hrs
   - FIL 2274C Editing I 3 hrs
   - FIL 3124 Short Script I 3 hrs
   - FIL 3201C Introduction to Film Production 3 hrs
   - FIL 3297 Sound Design I 3 hrs
   - FIL 3300C Film Documentary 3 hrs
   - FIL 3304C Documentary Vision 3 hrs
   - FIL 3307 Docudrama 3 hrs
   - FIL 3401 Film History I 3 hrs
   - FIL 3503C Film Theory and Criticism I 3 hrs
   - FIL 3510 World Cinema Traditions 3 hrs
   - FIL 4201C Documentary Workshop I 3 hrs
   - FIL 4202C Documentary Workshop II 3 hrs
   - FIL 4602 Film Business 3 hrs
   - FIL 4607 Film Production Management 3 hrs

5. Upper Level Restricted Electives (9 hrs)

   Select three of the following
   - FIL 30XX Documentary Field Production
   - FIL 3504C Film Theory and Criticism II
   - FIL 3513 Latin American Cinema
   - FIL 4564 Africana Cinema
   - FIL 4574 Images & Text in Context
   - FIL 4604 The Film Producer

   Additional courses may be acceptable. Consult your advisor.

6. Capstone (6 hrs)

   - FIL 4203C Capstone I 3 hrs
   - FIL 4211C Capstone II 3 hrs

7. Departmental Exit Requirements

   - A student must maintain an overall average grade of “B” (3.0) or better in courses within the major.
   - Computer competency met by CGS 1060C or STA 1060C.
   - Department of Film requires a passing grade on an exit examination.

8. Foreign Language Requirements (0-8 hrs)

   Admission: Met by graduation requirement.

   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (Variable)

   Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

10. University Minimum Exit Requirements

   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

**FINANCE (B.S.B.A.)**

College of Business Administration

BAZ 101, 407-823-2184

http://www.bus.ucf.edu/finance

Admissions Requirements

- Completion of the UCF General Education Program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (36 hrs)
A. Communications Foundations 9 hrs
   Required. SPC 1600
B. Cultural and Historical Foundations 9 hrs
   A. Communications Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations 3 hrs
   Select MAC 1105 College Algebra
   Select CGS 2100C Comp Fundamentals for Bus
D. Social Foundations 3 hrs
   Select ECO 2013 Macroeconomics or
   ECO 2023 Microeconomics
   Select one: PSY 2012, SYG 2000, ANT 2000
E. Science Foundations 6 hrs

2. Common Program Prerequisites
   Must be completed with a “C” (2.0) or better.
   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
   *ECO 3401 Quantitative Business Tools I
   *CGS 2100CC Computer Fundamentals for Business
   *At UCF, students who have completed MAC 2233 and STA 2302 will be waived from ECO 3401. Students who have not completed both classes with a “C” (2.0) or better must take ECO 3401.

3. Required for All Business Majors (30 hrs)
   First or subsequent semester in the College of Business Administration:
   GEB 3031 Cornerstone (Required in 1st or 2nd semester) 6 hrs
   GEB 3356 Introduction to International Business 3 hrs
   BUL 3130 Legal & Ethical Environments of Business 3 hrs
   ECO 3411 Quantitative Business Tools II 3 hrs
   FIN 3403 Business Finance 3 hrs
   MAN 3025 Management of Organizations 3 hrs
   ISM 3011 Essentials of Management Information Systems 3 hrs
   MAR 3923 Marketing 3 hrs

   Last Semester:
   MAN 4720 Strategic Management 3 hrs

4. Special College and/or Department Requirements
   Students who change degree programs and select this major must adopt the most current catalog.
   Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisite class.
   Students wanting to major in finance must apply for admission to the major.
   Final exams will be given during exam week.
   Any student receiving a business degree must complete one half (30) of the 60 hours of upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
   A maximum of 6 hours of required or elective coursework (from sections 5 and 6 below) can count toward another major or minor degree program.
   Students majoring in finance must earn a grade of “C” (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major. FIN 3403 is included in this requirement.
   Students must earn at least a 2.0 GPA in the major and CBA.

5. Required Courses (18 hrs)
   FIN 3303 Financial Markets 3 hrs
   FIN 3414 Intermediate Corporate Finance 3 hrs
   FIN 3504 Investment Analysis 3 hrs
   FIN 4453 Financial Models 3 hrs
   Select two of the following:
   FIN 4313 Management of Financial Institutions 3 hrs
   FIN 4324 Commercial Bank Management 3 hrs
   FIN 4514 Portfolio Analysis and Management 3 hrs
   FIN 4521C Applied Portfolio Management I 4 hrs
   FIN 4522C Applied Portfolio Management II 4 hrs
   FIN 4533 Financial Derivatives 3 hrs
   FIN 4604 International Financial Management 3 hrs
   FIN 4424 Adv Topics in Financial Management 3 hrs

6. Restricted Electives (9 hrs)
   Select three of the following:
   ACG 3131 Financial Accounting Concepts 3 hrs
   ACG 3141 Intermediate Financial Accounting 3 hrs
   ACG 3361 Intermediate Managerial Accounting 3 hrs
   ECO 4212 Economic Statistics and Econometrics 3 hrs
   FIN 3470 Financial Statement Analysis 3 hrs

   7. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after any CLEP award
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

9. Electives** (variable)
   Total Semester Hours Required 120 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, Microeconomics, Calculus, Statistics, and a relevant computer class.
     - At UCF, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
     - Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisite class.
     - ACG X001 and X011 will substitute for ACG 2021 at UCF.
   - Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
   - Professional courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
   - A minimum of 12 semester hours must be completed at UCF within each individual major.
   - Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - FINANCE

Freshman 1st Term 15 hrs 2nd Term 15 hrs
15 hrs
ENC 1101* 3
ENC 1102* 3
Cull-Hist * 3
Cull-Hist II* 3
SPC 1300 3
Art/Muscl Lit 3
***Elective 3
MAC 1105* 3

2006-2007 Undergraduate Catalog
FOREIGN LANGUAGE EDUCATION - FRENCH (B.S.)

College of Education
Department of Teaching and Learning Principles, ED209
http://www.education.ucf.edu/
Program Coordinator: Dr. Karen Verkler
ED 220-L, 407-823-5235
E-mail: kverkler@mail.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, (i.e. an AA degree from an approved Florida community college or state university)
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses

Degree Requirements:

- Students should see an advisor prior to registering for classes
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

   A. Communication Foundations (9 hrs)
   ENC 1101 Composition I 3 hrs
   ENC 1102 Composition II 3 hrs
   Select SPC 1600 Fundamentals of Oral Communication 3 hrs

   B. Cultural-Historical Foundations (9 hrs)
   Select AMH 2010 U.S. History 1492-1877 3 hrs
   Select AMH 2020 U.S. History 1877-Present 3 hrs
   Select PHI 2010 Introduction to Philosophy 3 hrs

   C. Mathematical Foundations (6 hrs)
   Select MGF 1106 Finite Mathematics 3 hrs
   Select one:
   STA 1060C Basic Statistics using MS Excel 3 hrs
   STA 2014C Principles of Statistics 3 hrs

   D. Social Foundations
   Select POS 2041 American National Government 3 hrs
   Select PSY 2012 General Psychology 3 hrs

   E. Science Foundations
   Select PSC 1121 Physical Science 3 hrs
   Select one of the following (per GEP) GEP
   ANT 2511 The Human Species 3 hrs
   BSC 1005 Biological Principles 3 hrs
   Select one associated science lab: 1 hr
   BSC 1005L Biological Principles Laboratory 3 hrs
   PSC 1121L Physical Science Laboratory 3 hrs

2. Common Program Prerequisites (25 hrs)

   A. Communications (9 hrs)
   ENC 1101 Composition I GEP
   ENC 1102 Composition II GEP
   SPC 1600 Fundamentals of Oral Communication GEP

   Note: See laboratory component under Section 2.

3. Education Core Requirements (15 hrs)

   *EDG 4322 Professional Teaching Practices 3 hrs
   *EDG 4603 Analysis of Critical Issues in Education 3 hrs
   *EDF 4214 Classroom Learning Principles 3 hrs
   *TSL 4080 Theory and Practice of Teaching ESOL 3 hrs
   Students in Schools
   RED 4043 Content Reading K-12 3 hrs

4. Internship I (ESE3940) (3 hrs)

   - Program Internship I Prerequisites: EDG 4323, EDF 4214, FLE 4314, FLE 4333, and at least 50% of all required foreign language courses must be completed before doing Internship I with a minimum grade of “C-” in all of these prerequisite courses*
   - See additional requirements listed under College of Education, Office of Clinical Experiences

5. Specialization Requirements (21 hrs)

   *FLE 4333 For Lang Tch in the Secondary School 3 hrs
   *FLE 4314 For Lang Tch in the Elementary School 3 hrs
   FEM 3300 French Grammar 3 hrs
   FEM 3420 French Composition 3 hrs
   FEM 3760 Advanced French Oral Composition 3 hrs
   FRW 3100 Survey of French Literature I 3 hrs
   FRW 3101 Survey of French Literature II 3 hrs

6. Upper Division Restricted Electives (9 hrs)

   Select three upper division (3000 or 4000 level) courses in French with advisor’s approval. Students are encouraged to select from the following courses:
   - FRE 4421 Advanced French Conversation
   - FRE 4422 Advanced French Composition
   - FRE 4590 French Civilization and Culture Any FRW 3/4XXX with Advisor’s approval.

7. Other Cognate Requirements (3 hrs)

   Select one of the following:
   FRE3780 French Phonetics and Diction or LIN 4643 Cross-Cultural Communication

8. Internship II (ESE4943) (12 hrs)

   - ESE 4323 Professional Teaching Practices 3 hrs
   - EDF 5603 Analysis of Critical Issues 3 hrs
   - EDF 4963 Internship I 6 hrs
   - EDF 4950 Internship II 6 hrs

Note: Any FRW 3/4XXX may be taken in place of clinical experiences.

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UCF Degree Programs
UCF Degree Programs

- At least 80% of all required foreign language courses and all methods courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

9. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

10. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

11. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

12. Total Program Semester Hours Required 124 hours

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

13. Recommended Four-Year Sequence of Courses

Freshman Year

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<td>PSC 1121</td>
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Sophomore Year

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<td>THE 2000 or F</td>
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Senior Year

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*Required prior to Internship I.

FOREIGN LANGUAGE EDUCATION- SPANISH (B.S.)

College of Education
Department of Teaching and Learning Principles

ED 209

http://www.education.ucf.edu/
Program Coordinator: Dr. Karen Vverker
ED 220-L, 407-823-5235
E-mail: kverker@mail.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, (i.e. an AA degree from an approved Florida community college or state university)
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses

Degree Requirements

- Students should see an advisor prior to registering for classes
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations (9 hrs)
  - ENC 1101 Composition I
  - ENC 1102 Composition II
- B. Cultural-Historical Foundations (9 hrs)
  - Select AMH 2010 U.S. History 1492-1877 3 hrs
  - Select AMH 2020 U.S. History 1877-Present 3 hrs
  - Select PHI 2010 Introduction to Philosophy 3 hrs
- C. Mathematical Foundations (6 hrs)
  - Select MGF 1106 Finite Mathematics 3 hrs
  - Select one:
    - STA 1060C Basic Statistics using MS Excel or
    - STA 2014C Principles of Statistics
- D. Social Foundations (6 hrs)
  - Select PSY 2012 General Psychology 3 hrs
  - Select one:
    - PreP 1121 Physical Science 3 hrs
    - ESE 3940 Field Experience 3 hrs
  - Select one:
    - ANT 2511 The Human Species or
    - BCS 1005 Biological Principles

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (25 hrs)

- A. Communications (9 hrs)
  - ENC 1101 Composition I
  - ENC 1102 Composition II
  - SPC 1600 Fundamentals of Oral Communication
- B. Humanities (6 hrs)
  - PHI 2010 Introduction to Philosophy
  - Select one:
    - ARH 2050 History of Western Art I or
    - ARH 2061 History of Western Art II or
    - MUL 2010 Enjoyment of Music or
    - THE 2000 Theatre Survey or
    - FIL 2400 History of Motion Pictures
- C. Mathematics (9 hrs)
  - MAC 1105 College Algebra
  - MGF 1106 Finite Mathematics
  - One of the following (per GEP)
    - Select one:
      - STA 1060C Basic Statistics using MS Excel or

Note: See laboratory component under Section 2.2.
E. Science (9 hrs + lab)

D. Social Science/History (12 hrs)

One of the following (per GEP)

ANT 2511 The Human Species or
BSC 1005 Biological Principles

Select one:

AST 2002 Astronomy or
GEO 1200 Physical Geography or
GLY 1030 Geology and Its Applications

Select one associated science lab:

BSC 1005L Biological Principles Laboratory or
PSC 1121L Physical Science Laboratory

F. Education Courses (9 hrs)

EDF 2005 Introduction to Education 3 hrs
EDG 2701 Teaching Diverse Populations 3 hrs
EME 2040 Technology for Educators 3 hrs

G. Diversity Courses

H. Other Program Prerequisites

Select three upper division (3000 or 4000 level) courses in Spanish

SPN 2200 Intermediate Spanish Language and Civ I 3 hrs
SPN 2201 Intermediate Spanish Language and Civ II or
SPN 3234 Advanced Directed Readings (may be taken in place of SPN2201 with advisor's consent)

3. Education Core Requirements (15 hrs)

*EDG 4323 Professional Teaching Practices 3 hrs
EDF 4603 Analysis of Critical Issues in Education 3 hrs
*EDF 4214 Classroom Learning Principles 3 hrs
TSL 4080 Theory and Practice of Teaching ESOL 3 hrs

Students in Schools

RED 4043 Content Reading K-12 3 hrs

4. Internship I (ESE 3940) (3 hrs)

Program Internship I Prerequisites: EDF 4214, FLE 4214, FLE 4314, FLE 4333, and at least 50% of all required foreign language courses must be completed prior to Internship I with a minimum grade of "C" in all these prerequisite courses.

See additional requirements listed under College of Education, Office of Clinical Experiences

5. Specialization Requirements (21 hrs)

FLE 4333 For Lang Tch in the Secondary School 3 hrs
FLE 4314 For Lang Tch in the Elementary School 3 hrs
SPN 3300 Advanced Spanish Grammar and Comp 3 hrs
SPN 3420 Spanish Composition 3 hrs
SPN 3760 Advanced Spanish Oral Communication 3 hrs

SPW 3100 Survey of Spanish Literature I 3 hrs
SPW 3101 Survey of Spanish Literature II 3 hrs

or in place of SPW 3100 and SPW 3101:
SPW 3130 Survey of Latin American Literature I
SPW 3131 Survey of Latin American Literature II

6. Upper Division Restricted Electives (9 hrs)

Select three upper division (3000 or 4000 level) courses in Spanish with advisor's approval. Students are encouraged to select from the following courses:

SPN 4110 Advanced Spanish Conversation
SPN 4421 Advanced Spanish Composition
SPN 4510 Spanish Civilization and Culture
SPN 4520 Latin American Civilization and Culture
Any SPN 4xxx with advisor's approval

7. Other Cognate Requirements (3 hrs)

Select one of the following:

LIN 4643 Cross-Cultural Communication
SPN 3852 Bilingualism
SPN 4800 Spanish-American Syntax
SPN 4801 Spanish Morphosyntax

8. Internship II (ESE4943) (12 hrs)

At least 60% of all required foreign language courses and all methods courses must be completed before doing Internship II

See additional requirements under College of Education, Office of Clinical Experiences

Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices, at the pre-professional level in accordance with State Board of Education 6A-5.065

9. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

10. Departmental Exit Requirements

Achieve a minimum 2.5 GPA in all courses within the major.

Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.

Pass all applicable sections of the Florida Teacher Certification Examination.

11. University Minimum Exit Requirements

A 2.0 UCF GPA

60 semester hours earned after CLEP awarded

48 semester hours of upper division credit completed

30 of the last 36 hours of course work must be completed in residency at UCF

25% of course work must be completed in residency at UCF

Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

12. Total Semester Hours Required 124 hrs

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

13. Recommended Four-Year Sequence of Courses

Freshman Year

Fall (12 hrs) Spring (16 hrs)
EDF 2005 3 hrs EDF 2701 3 hrs
ENC 1101 3 hrs ENC 1102 3 hrs
MGF 1106 3 hrs MAC 1106 3 hrs
PSY 2012 3 hrs POS 2041 3 hrs

Sophomore Year

Fall (15 hrs) Spring (12 hrs)
AMH 2010 3 hrs AMH 2020 3 hrs
BSC 1005 3 hrs AST 2002 3 hrs
SPC 1600 3 hrs SPN2201 or
SPN 2200 3 hrs SPN 5234 with
STA 2014C 3 hrs advisor's consent

Junior Year

Fall (15 hrs) Spring (15 hrs)
*EDF 4214 3 hrs RED 4043 3 hrs
*EDF 4323 3 hrs SPW 3101 or
SPN 3300 3 hrs SPW 3131 3 hrs
SPN 3420 3 hrs Cognate elective 3 hrs
SPN 3760 3 hrs Upper division restricted electives

Senior Year

Fall (12 hrs) Spring (12 hrs)
EDF 4603 3 hrs ESE 4943 12 hrs
ESE 3940 3 hrs
FORENSIC SCIENCE-ANALYSIS TRACK (B.S.)

College of Sciences, Department of Chemistry
CH 329, 407-823-6205
http://www.cas.ucf.edu/chemistry
E-mail: chemistry@ucf.edu
Contact: B. Fookes

Admission Requirements: none

Degree Requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry.
- Co-op credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Students must complete categories 2 (Common Program Prerequisites) and 3 (Core science and math) below and achieve a minimum of 2.5 cumulative GPA in categories 2 and 3 prior to enrolling in the program of study described in categories 4 and 5.
- Students must maintain a minimum of 2.5 cumulative GPA in categories 4 and 5 to continue in the major.
- Individual course prerequisites for enrollment in courses selected to complete categories 4 and 5 will be enforced without exception.
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36+3 hrs)
   (Note: Certain courses must be selected in the GEP for this major, which brings the GEP hours above 36)
   - Communication Foundations
     1. Select ENC 1101 and ENC 1102 6 hrs
     2. Prefer SPC 1016 3 hrs
   - Cultural and Historical Foundations
     B. Select STA 2023 3 hrs
   - Mathematical Foundations
     C. Select MAC 2311 4 hrs
     D. Social Foundations 6 hrs
   - Science Foundations
     1. Select PHY 2048 & L (PR: MAC 2311) 4 hrs
     2. Select BSC 2010C 4 hrs

2. Common Program Prerequisites (16 hrs)
   - BSC 2010C Biology I GEP
   - CHM 2045C* Chem Fund I GEP
   - MAC 2311 Calculus w/ Anal Geometry I GEP
   - PHY 2048 & L Physics Engr. & Sci. I & Lab GEP
   - PHY 2049 & L Physics Engr. & Sci. II & Lab GEP
   *See Transfer Notes for possible substitutes
   + CHM 2040 plus CHM 2041 can substitute for CHM 2045C

3. Core Science and Math Requirements (18 hrs)
   - BSC 2010C Biology I GEP
   - CHM 2210 Organic Chem. I 3 hrs
   - CHM 2211 & L Organic Chem II & lab 5 hrs
   - STA 2023 Statistical Methods I GEP
   - PCB 3063 Genetics 3 hrs
   - PCB 3230 Immunology 3 hrs
   - MAC 2311 Calculus w/ Anal Geometry I GEP
   - MAC 2312 Calculus w/ Anal Geometry II GEP
   - PHY 2048 & L Physics Engr. & Sci. I & Lab GEP
   - PHY 2049 & L Physics Engr. & Sci. II & Lab GEP

4. Forensic Science Core (19 hrs)
   - CHS 3501 Intro to Forensic Science 3 hrs
   - CHS 3505C Forensic Microscopy 4 hrs
   - CHS 4537 Forensic Lab Quality Assurance 2 hrs
   - CHS 3595 Foren Sci in the Courtroom 3 hrs
   - CHS 3533C Forensic Biochemistry I 3 hrs
   - CHS 4591 Forensic Science Internship 4 hrs

5. Forensic Analysis Track (27 hrs)
   a. Required Courses (15 hrs)
      - CHM 2422 Applied Physical Chemistry 3 hrs
      - CHM 4130C Advanced Analytical Chemistry 4 hrs
      - CHS 3511C Trace Evidence 4 hrs
      - CHS 3530C Foren Anal of Controlled Subs 4 hrs
   b. Select 12 hours from the following: (12 hrs)
      - ANT 4521C Forensic Anthropology 3 hrs
      - BCH 4063 Biochemistry I 3 hrs
      - CHM 3211L Organic Lab Techniques II 2 hrs
      - CHM 4912L Undergraduate Research 3 hrs
      - CHS 4506C Forensic Investigating Techniques 3 hrs
      - CHS 4515C Forensic Crime Scene Investigation 4 hrs
      - CHS 4547C Advanced Topics in Trace Evidence 3 hrs
      - PCB 3063L Genetics Lab 1 hr
      - PCB 3233L Immunology Lab 1 hr

Substitutions require prior approval by the department.

6. Departmental Exit Requirements:
   - Earn a grade of "C" (2.0) or better in each course used to satisfy categories 2, 3, 4, and 5 of the degree requirements.
   - Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 2 and 3 of the departmental degree requirements.
   - Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 4 and 5 of the departmental degree requirements.
   - Computer Competency met by CHS 3505C and CHS 4537.
   - American Board of Criminalists (ABC) exit exam must be taken prior to graduation, or an exit exam specified by the department.
   - The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF.

7. Foreign Language Requirements
   Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
   Graduation: none
   - Electives (variable)
     Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence at UCF
   - 25% of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required: 124 hrs

Related Programs: Chemistry, Forensic Biochemistry Track
Related Minors: Chemistry

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- CHM 2045C*: may use CHM 1040 plus CHM 1041
- MAC 2311*: if MAC 2312 is taken, MAC 2353 and MAC 2354 will satisfy the CPP. MAC 2311 & 2312 are required in the major and still must be taken.
- PHY 2048 & Lab* and 2049 & Lab*: Although CPP requirements permit substitution by Organic Chemistry (CHM 2210 & 2211), PHY 2048 & L, PHY 2049 & L, CHM 245, and CHM 2046 are required for graduation, so all must be taken.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same...
FORENSIC SCIENCE-BIOCHEMISTRY TRACK (B.S.)

College of Sciences, Department of Chemistry
CH 223, 407-823-0163
http://www.cas.ucf.edu/chemistry/
E-mail: chemistry@ucf.edu

Contact: J. Balaintyme

Admission Requirements: none

Degree Requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- The last 30 credit hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Department of Chemistry.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Students must complete categories 2, 3, 4, and 5 (or equivalent proficiency exam) prior to graduation.
- Students must adopt the most current catalog.
- A. Communication Foundations

1. UCF General Education Program (36+3 hrs)
   (Note: Certain courses must be selected in the GEP for this major, which brings the GEP hours above 36)
   A. Communication Foundations

2. Common Program Prerequisites (16 hrs)
- BSC 2010C Biology I
- PCB 2045C+ Chem Fund I
- PHY 2046 & L* Physics Engr. & Sci. I & Lab
- PHY 2049 & L* Physics Engr. & Sci. II & Lab

*See Transfer Notes for possible substitutes
+CHM 2040 plus CHM 2041 can substitute for CHM 2045C

3. Core Science and Mathematics Requirements (20 hrs)
- MAC 2311 Calculus I
- MAC 2312 Calculus II
- MAC 2313 Calculus III
- MAC 2314 Calculus IV

4. Forensic Science Core (19 hrs)

5. Forensic Biochemistry Track (29 hrs)
- BCH 4053 Biochemistry I
- BCH 4054 Biochemistry II
- BCH 4103L Biochemical Methods Lab

6. Departmental Exit Requirements
- Earn a grade of "C" (2.0) or better in each course used to satisfy categories 2, 3, 4, and 5 of the departmental degree requirements.
- Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 2 and 3 of the departmental degree requirements.
- Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 4 and 5 of the departmental degree requirements.
- Computer Competency met by CHS 3505C and CHS 4537.
- American Board of Criminalists (ABC) exit exam must be taken prior to graduation, or an exit exam specified by the department.
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF.

7. Foreign Language Requirements (0-8 hrs)

8. Electives (variable)

9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
UCF Degree Programs

- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required: 124 hours

Related Programs: Chemistry, Forensic Science Analysis Track, Molecular Biology and Microbiology

Related Minors: Chemistry, Molecular Biology and Microbiology

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- CHM 2045C*: may use CHM 1040 plus CHM 1041
- 2254*: may use MAC 2311 & 2312
- MAC 2311* & 2312*; Although MAC 2353 & 2354 will satisfy the CPP, MAC 2311 & 2312 are required in the major and still must be taken.
- PHY 2048&Lab* and 2049&Lab*: Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, PHY 2048&L, PHY 2049&L, and Organic Chemistry through CHM 2046 are required for graduation.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements.

- Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer
Chem Test See catalog 0
Math test See catalog 0

Freshman Year
Fall
BSC 2010C Biology I 4
ENC 1101 Composition I 3
MAC 2311 Calc Anal Geo I 4
Spring
PHY 2048 Phy for Eng Sci I 3
CHM 2045C Chemistry Fund I 4
CHM 2046 Chemistry Fund II 4

Sophomore Year
Fall
EUH 2000* req# 1B1-GEP 3
SPC 1016 Tech Presentations 3
STA 2023 Stat Methods I 3
PHY 2049 Phy for Eng Sci II 3
PHY 2049L Phy L Eng Sci II 1
CHM 2210 Organic Chem I 3
Spring
E-mail: Modernlanguages@ucf.edu
http://www.cas.ucf.edu/forlang

CNH 523,
Department of Modern Languages & Literatures
FRENCH (B.A.)
College of Arts and Humanities

Admission Requirements
- none

Placement in Language courses
Placement in Modern Language courses is based on one year of high school language being equivalent to one semester of college work. For example, four years of high school French may place the student in the first semester of the third year. Native speakers, or students who have received advanced education in French-speaking societies, may not take lower division French courses. They must also substitute other upper division level courses for FRE 3420, FRE 4422, FRE 3760, and FRE 4421.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- 36 credits in French must be taken at the 3000 level or above
- At least six of the 36 French credits must be at the 4000 level
- At least 30 hours must be taken in Modern Language courses taught in French
- Earn at least a “C” (2.0) in each upper division French course
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and Literatures
- Language credit by exam will not be given in courses lower in level than those in which students are presently enrolled. Native speakers will be allowed Credit by Examination in literature courses only.
- Co-op or internship credit cannot be used in this major
- Students must see their advisor to obtain proper counseling and have their schedule approved before registering for courses in their major

Courses designated in 1 (Gen Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural and Historical Foundations 9 hrs
   - C. Mathematical Foundations 3 hrs
   - Select MGF 1106 Finite Mathematics (may substitute a higher level math)
   - Prefer STA 1060C Statistics Using Excel 3 hrs
   - D. Social Foundations 6 hrs
   - E. Science Foundations 6 hrs

2. Common Program Prerequisites (0-14 hrs)
   - FRE 1107* Elem French Lang & Civ I 4 hrs
   - FRE 1121* Elem French Lang & Civ II 4 hrs
   - FRE 2200* Interim French Lang & Civ I 3 hrs
   - FRE 2201* Interim French Lang & Civ II 3 hrs
   * May be met by proficiency test or completion of FRE 2201

3. Core requirements (21 hrs)
   - FRE 3300* Advanced Grammar 3 hrs
   - FRE 3420* French Composition or 3 hrs
   - FRE 4422 Advanced French Composition or 3 hrs
   - FRE 3760* Adv French Oral Communication or 3 hrs
   - FRE 4421 Advanced French Conversation 3 hrs
   - FRW 3100 Survey of French Literature I 3 hrs
   - FRW 3101 Survey of French Literature II 3 hrs
   - FRE 3780* French Phonetics and Diction 3 hrs
   - FOL 3730 Romance Philology 3 hrs
   *A native or near-native French speaker must substitute alternate upper division French courses in consultation with a departmental advisor.

4. Upper Division Restricted Electives (15 hrs)
   - French literature beyond the survey level (taught in French) 6 hrs

P. Giordano, 407-823-2472
5. Departmental Exit Requirements
- Earn a grade of “C” (2.0) or higher in at least 36 hours of upper division French courses
- Students are required to satisfactorily complete a departmental exit exam
- Students must submit their portfolio to their French Faculty Advisor
- Computer Competency met by CGS 1060C or equivalent

6. Foreign Language Requirements (0-16 hrs)
Admission: Met by Graduation requirements.
Graduation: Met by Common Program Prerequisites.

7. Electives (variable)
Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Spanish, Foreign Language Combination

Related Minors: French, German, Italian, Judaic Studies, Latin American and Iberian Area Studies, Spanish

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated by the department chair for equivalency credit. The student must provide all supporting information.

GENERAL BUSINESS (B.S.B.A.)
College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu
Faculty Advisor: B. Moore, BA 466, 407-823-5256, bmoore@bus.ucf.edu
Admission Requirements
- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements
1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
      Required: SPC 1600
   B. Cultural and Historical Foundations 9 hrs
      Select one: PSY 2012, SYG 2000, ANT 2000
   C. Mathematical Foundations 3 hrs
      Select CGS 2100CC Computer Fundamentals for Bus 3 hrs
   D. Social Foundations 3 hrs
      Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics
   E. Science Foundation 3 hrs
      Select one: PHY 2013, PHY 2013-19

2. Common Program Prerequisites
   Must be completed with a “C” (2.0) or better:
   - ACG 2021 Principles of Financial Accounting
   - ACG 2071 Principles of Managerial Accounting
   - ECO 2013 Macroeconomics
   - ECO 2023 Microeconomics
   - *ECO 3401 Quantitative Business Tools I
   - CGS 2100CC Computer Fundamentals for Business

3. Required for All Business Majors (30 hrs)
First or subsequent semester in the College of Business Administration:
- GEB 3031 Cornerstone (Required in 1st or 2nd semester) 6 hrs
- GEB 3356 Introduction to International Business 3 hrs
- BUL 3130 Legal & Ethical Environments of Business 3 hrs
- ECO 3411 Quantitative Business Tools II 3 hrs
- FIN 3403 Business Finance 3 hrs
- MAN 3025 Management of Organizations 3 hrs
- ISM 3011 Essentials of Management Info Sys 3 hrs
- MAR 3023 Marketing 3 hrs
- Last Semester: MAN 4720 Strategic Management 3 hrs

4. Special college and/or department requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
- Students wanting to major in General Business must apply for admission to the major.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.
- Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students must have at least a 2.0 GPA in the major and COB.
- Students majoring in General Business must earn a grade of “C” (2.0) or better in each course applied towards the major, and a 2.0 overall average in the major.

5. Second Level Core (5 courses):
   Students must take one course from each of the following areas:
   - Accounting (must take ACG 3131, Economics (must take ECP 4703), Finance, Management, and Marketing. These five courses are restricted to the courses listed below:
     - Accounting
       - ACG 3361 Intermediate Managerial Accounting
       - TAX 4001 Federal Income Tax I
     - Economics
       - ECO 3233 Money and Banking
     - ECP 3203 Contemporary Labor Economics
     - ECP 4703 Managerial Economics
     - Finance
       - FIN 3403 Business Finance
     - FIN 3414 Intermediate Corporate Finance
     - FIN 3504 Investment Analysis
     - Management
       - MAN 3301 Management of Human Resources
     - MAN 4240 Organizations: Theory and Behavior
     - Marketing
       - MAR 3023 Marketing
       - MAR 4841 Service Marketing
       - MAR 4156 International Marketing

6. Restricted Electives (four courses): (12 hrs)
Restricted electives are to be taken from three different departments and from the courses listed above, at least two of the restricted electives must be at the 4000 level.

7. Students desiring to complete the General Business major as a second major within the College of Business Administration must complete 24 hours in the second major beyond the courses required for the first major.

8. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

* At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO3401. Students who have not completed both classes with a “C” (2.0) or better must take ECO3401.
UCF Degree Programs

Graduation: none

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Acceptance to the upper division health information management program. Acceptance to the university does not necessarily constitute admission.

Web Address: http://www.cohpa.ucf.edu/health.pro/

Admission Requirements

Separate Application to the limited access program must be made directly to the program prior to March 1 of the year admission is sought.

UCF application must also be submitted by the program deadline of March 1st. Acceptance to UCF is necessary before acceptance to the program can occur.

This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this it is strongly recommended that students be at least one year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.

Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program.

All applicants must have a minimum overall GPA of 2.5 and complete all program prerequisite courses with at least a grade of "C" (2.0)

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog.

Students should complete the General Education Program, Foreign Language Admissions and the Common Program Prerequisites Requirements before transferring within the Florida Public University/ Community College System.

Students should consult with a departmental advisor.

The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours.

A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Health Information Program.

UCF Residency Requirement: 31 hours

The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations 9 hrs
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
- Select MAC 1105
- Select STA 2014C
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs
- Select BSC 2010C
- Select CHM 1032

2. Common Program Prerequisites (17 hrs)
- ZOO 2053C Human Anatomy*
- PCB 2003C Human Physiology* 4 hrs
- STA 2014C Statistics 4 hrs
- CSG 2100C Computer Science for Business* 3 hrs
- ACG 2021 Principles of Financial Accounting 3 hrs
- ACG 2071 Principles of Managerial Accounting 3 hrs

Note: For detailed information about this program, see the AS to BS Program section.

A 2.0 UCF GPA
9. University Minimum Exit Requirements

Graduation: none

10. Electives*** (variable)

Total Semester Hours Required 120 hours

***General electives as required to reach 120 semester hours.

GENERAL BUSINESS (B.S.B.A.)

AS to BS TRACK

Note: For detailed information about this program, see the AS to BS Program section.

HEALTH INFORMATION MANAGEMENT (B.S.)

College of Health and Public Affairs
HPA2 210, 407-823-2369

Undergraduate Program Director: Thomas Falen
E-mail: tfalen@mail.ucf.edu
Web Address: http://www.cohpa.ucf.edu/health.pro/

Admission Requirements

Separate Application to the limited access program must be made directly to the program prior to March 1 of the year admission is sought.

Failure to meet the minimum UCF GPA requirement for entrance to the program will result in denial of entry to the program.

The courses designated in sections 1 and 2 below must be completed at a Florida Community College, and should usually be completed in the first 60 hours.

A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Health Information Program.

Graduation: none

1. UCF General Education Program (36 hrs)

A. Communication Foundations 9 hrs
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
- Select MAC 1105
- Select STA 2014C
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs
- Select BSC 2010C
- Select CHM 1032

2. Common Program Prerequisites (17 hrs)
- ZOO 2053C Human Anatomy*
- PCB 2003C Human Physiology* 4 hrs
- STA 2014C Statistics 4 hrs
- CSG 2100C Computer Science for Business* 3 hrs
- ACG 2021 Principles of Financial Accounting 3 hrs
- ACG 2071 Principles of Managerial Accounting 3 hrs

Note: For detailed information about this program, see the AS to BS Program section.

A 2.0 UCF GPA
9. University Minimum Exit Requirements

Graduation: none

10. Electives*** (variable)

Total Semester Hours Required 120 hours

***General electives as required to reach 120 semester hours.

GENERAL BUSINESS (B.S.B.A.)

AS to BS TRACK

Note: For detailed information about this program, see the AS to BS Program section.

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A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Health Information Program.

Graduation: none

1. UCF General Education Program (36 hrs)

A. Communication Foundations 9 hrs
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
- Select MAC 1105
- Select STA 2014C
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs
- Select BSC 2010C
- Select CHM 1032

2. Common Program Prerequisites (17 hrs)
- ZOO 2053C Human Anatomy*
- PCB 2003C Human Physiology* 4 hrs
- STA 2014C Statistics 4 hrs
- CSG 2100C Computer Science for Business* 3 hrs
- ACG 2021 Principles of Financial Accounting 3 hrs
- ACG 2071 Principles of Managerial Accounting 3 hrs

Note: For detailed information about this program, see the AS to BS Program section.

A 2.0 UCF GPA
9. University Minimum Exit Requirements

Graduation: none

10. Electives*** (variable)

Total Semester Hours Required 120 hours

***General electives as required to reach 120 semester hours.
Tentative Course Schedule for Entering Freshmen

Freshman Year*

<table>
<thead>
<tr>
<th>Fall</th>
<th>14 hrs</th>
<th>Spring</th>
<th>16 hrs</th>
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<tr>
<td>ENC 1101</td>
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<td>PSY 2012 or SYG 2000</td>
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<td>or AMH 2010</td>
<td>3</td>
</tr>
<tr>
<td>or AN 2000</td>
<td>3</td>
<td>POS 2041 or ECO 2013</td>
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*Plan your required nine summer hours into your course of study

Sophomore Year

<table>
<thead>
<tr>
<th>Fall</th>
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<tr>
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<td>ZOO 3733C</td>
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<td>PCB 3703C</td>
<td>4</td>
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<td>3</td>
<td>SPC 1600</td>
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<td>or AMH 2020</td>
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<td>One Course: ARH 2050</td>
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<td>ARH 2051, MUL 2010, THE 1020, REL 2300, PHI 2010, LIT 2110, LIT 2120</td>
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Junior Year

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<td>HIM 4226C</td>
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<td>HSC 4550**</td>
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<td>HIM 3006</td>
<td>3</td>
<td>HIM 3896L</td>
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<tr>
<td>MAN 3025** or HSA 4180</td>
<td>3</td>
<td>HSC 3157</td>
<td>3</td>
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<tr>
<td>HSC 3531**</td>
<td>3</td>
<td></td>
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Summer

| HSA 4109      | 3      |
| HSC 3460**    | 3      |

Senior Year

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<td>HIM 4344C</td>
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<td>HIM 4676</td>
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<tr>
<td>HSA 3170**</td>
<td>3</td>
<td>HIM 4656C</td>
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</tr>
<tr>
<td>HIM 4506</td>
<td>3</td>
<td>HIM 3816L</td>
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<tr>
<td>HIM 4256C</td>
<td>3</td>
<td>HSA 4702**</td>
<td>3</td>
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</table>

Summer

| HIM 4683      | 5      |

**NOTE: The asterisked courses may be taken at any time during the two years. The HIM courses are offered only during the semester in which they appear on this schedule and are restricted to majors only.

HEALTH SCIENCES - ATHLETIC TRAINING TRACK (B.S.)

College of Health and Public Affairs
HPA2 210, 407-823-3463
http://www.cohpa.ucf.edu/health.pro/athletic
E-mail: kschell@mail.ucf.edu
Undergraduate Program Director: Kristen C. Schellhase, MEd, ATC, CSCS

Admission Requirements

Students may only begin the athletic training program track in the Summer semester and must have:

A. Acceptance to the University as an undergraduate student in Health Sciences - Athletic Training Pending.
B. A minimum of 2.75 overall grade point average.
Two years of one foreign language in high school, or
7. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none
HEALTH SCIENCES - Pre-Clinical Allied Health Track (B.S.)

College of Health and Public Affairs
HPA2 210, 407-823-2369
http://www.cohpa.ucf.edu/healthpro/

The Health Sciences-Pre-Clinical Allied Health Track is a Preparatory Program for Graduate Level Clinical Disciplines for the student who wishes to seek admission to graduate level clinical programs such as physical therapy, occupational therapy and physician assistant programs. Students with this preparation could also pursue graduate programs in Public Health, Environmental Health or Health Services Administration.

Admission Requirements: none

Degree Requirements
- Students should complete the General Education Program and the Common Program Prerequisites requirements before transferring within the Florida Public University/Community College System.
- Students should consult with a departmental advisor.
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours.
- Students must earn at least a "C" (2.0) in each course accepted as a Common Program Prerequisite and Core Requirement (see sections 2 and 3 below).
- No transfer course will be accepted with a grade lower than a "C."
- Students who change degree programs and select this major must adopt the most current catalog.
- Students should have access to a personal computer, modem, and software in order to interact with the instructional faculty.
- Courses in math, biology, chemistry and physics listed are the minimum levels. Students with adequate preparation are encouraged to enroll in higher course levels in the discipline.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      - Select MUL 2010 Enjoyment of Music or REL 2300 World Religions or The 2000 Theater Survey or PHI 2010 Intro to Philosophy
   - 9 hrs
   B. Cultural Historical Foundations
      - Select STA 2014C Principles of Statistics or STA 2023 Statistical Method I
      - 6 hrs
   C. Mathematical Foundations
      - Select MAC 2233 Trigonometry or STA 2014C Principles of Statistics or STA 2023 Statistical Method I
      - 6 hrs
   D. Social Foundations
      - Select ECO 2013 Principles of Economics I or ECO 2023 Principles of Economics II
      - 6 hrs
   E. Science Foundations
      - Select BSC 2010C Biology I or PHY 2053C College Physics I and Lab
      - 6 hrs

2. Common Program Prerequisites (0 hrs)
   A. Trigonometry
      - MAC 1114 Trigonometry or STA 2014C Principles of Statistics
      - GEP
   B. STA 2023 Statistical Method I
   - GEP
   C. BSC 2010C Biology I
      - GEP

3. Core Requirements - Lower Division (30 hrs)
   A. CGS 1060C Intro to Computer Science
   B. CGS 2100C Computer Fundamentals for Business
   C. CHEM 2045C Chemistry Fundamentals I with lab
   D. CHEM 2046 Chemistry Fundamentals II
   E. CHEM 2048L Chemistry Fundamentals II lab
   F. CHEM 2205 Introduction to Organic and Biochemistry
   G. DEP 2004 Developmental Psychology
   H. ECO 2023 Microeconomics
   I. HSC 2000 Intro to the Allied Health Professions
   J. HUN 2002 Modern Concepts in Nutrition
   K. MAC 1114 College Trigonometry
   L. MCB 2004 Microbiology for Health Professionals
   M. PHY 2053C College Physics I (not for Sci and Eng)
   N. PHY 2054C College Physics II (not for Sci and Eng)

4. Core Requirements - Upper Division (41 hrs)
   A. Basic and Health Sciences
      - Select HSC 2511 Introduction to Pharmacology or HSC 2550 Pathophysiology
      - 3 hrs
   B. MAC 1114 College Trigonometry
      - 4 hrs
   C. ZOO 3703 Anatomy
      - 4 hrs
   D. Health Services
      - Select HSA 3111 US Healthcare Systems or HSA 4301 Community Health Services
      - 3 hrs
   E. HSA 4180 Org & Mgt of Health Agencies
      - 3 hrs
   F. HSA 4340 Health Care Economics
      - 3 hrs
   G. HSC 3640 Health Law
      - 3 hrs
   H. HSC 4500 Epidemiology
      - 3 hrs
   I. HSC 4653 Healthcare Ethics
      - 3 hrs
   J. HSA 4702 Health Sciences Research Methods
      - 3 hrs
   K. HIM 4506 Quality Management
      - 3 hrs

5. Upper Division Restricted Electives
   Choose a minimum of 3 courses from the list below
   A. HSA 3170 Health Care Finance
      - 3 hrs
   B. HSA 3222 Long Term Care Administration
      - 3 hrs
   C. HSA 4109 Managed Care
      - 3 hrs
   D. HSA 4191 Health Care Automation
      - 3 hrs
   E. HSC 3110C Medical Self Assessment
      - 3 hrs
   F. HSC 3531 Medical Terminology
      - 3 hrs
   G. HSC 4243 Analysis of Instruction
      - 3 hrs
   H. HSC 4564 Healthcare Needs of the Elderly
      - 3 hrs
   I. HSC 3593 HIV Disease
      - 3 hrs
   J. HSC 4008 Professional Development of the Health Prof'ns
      - 3 hrs
   K. PHT 4119C Clinical Gross Anatomy
      - 4 hrs

6. Unrestricted Electives (variable)

7. Foreign Language Requirements (0-8 hrs)
   Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None

8. Program Exit Requirements (120 hrs)
   A. A 2.0 UCF GPA
   B. 60 semester hours earned after CLEP awarded
   C. 48 semester hours of upper division credit completed
   D. 30 of the last 36 hours of course work must be completed in residence at UCF
   E. Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hrs

Related Programs: The participating student may also consider applying for consideration to one or more of the following undergraduate or graduate degree programs: Health Information Management, Athletic Training, Cardiopulmonary Sciences, Radiologic Sciences, Health Services Administration. The program is a Preparatory Program for Graduate Level Clinical Disciplines for the student who wishes to seek admission to graduate level clinical programs such as physical therapy, occupational therapy and physician assistant programs. Students with this preparation could also pursue graduate programs in Public Health, Environmental Health or Health Services Administration.

Related Minors: Health Information Management, Health Services Administration.
## UCF Degree Programs

### Transfer Notes:
Completion of the Associate of Arts Degree is strongly recommended. Students who transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

### Tentative Course Schedule for Entering Freshmen

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Fall</th>
<th>14 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>
<td></td>
</tr>
<tr>
<td>CGS 1060C or CGS 2100CC</td>
<td>3</td>
<td>CHM 2046 &amp; 2046L</td>
<td>4</td>
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<td>MUL 2010 or REL 2300</td>
</tr>
<tr>
<td>HUN 2002</td>
<td>3</td>
<td>HUN 2002</td>
<td>3</td>
<td>THE 2000 or PHI 2010</td>
</tr>
<tr>
<td>SPC 1500</td>
<td>3</td>
<td>SPC 1500</td>
<td>3</td>
<td>MCB2004</td>
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<td>3</td>
<td>CHM 2205</td>
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<td>STA 2014C</td>
<td>3</td>
<td>EUH 2001 or HUM 2020</td>
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<td>or STA 2023</td>
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<td>or STA 2023</td>
<td>3</td>
<td>ECO 2023</td>
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<table>
<thead>
<tr>
<th>Sophomore Year</th>
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<th>15/17 hrs</th>
<th>Spring</th>
<th>15/16 hrs</th>
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<td>PHY 2054C</td>
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<td>HSA 4201</td>
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<td>ZOO 3733</td>
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<td>ZOO 3733</td>
<td>4</td>
<td>HSC 3157</td>
</tr>
<tr>
<td>or STA 2023</td>
<td>3</td>
<td>or STA 2023</td>
<td>3</td>
<td>ZOO 3703</td>
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</tbody>
</table>

**Summer**

- Foreign Lang I* or other lower level courses 2/4
- Foreign Lang II* or other lower level courses 3/4
* if not satisfied in high school.

<table>
<thead>
<tr>
<th>Juniors Year</th>
<th>Fall</th>
<th>14 hrs</th>
<th>Spring</th>
<th>16 hrs</th>
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<tbody>
<tr>
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<td>DEP 2004</td>
<td>3</td>
<td>HSA 4180</td>
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<td>ZOO 3733</td>
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<td>HSC 3157</td>
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<tr>
<td>or STA 2023</td>
<td>3</td>
<td>or STA 2023</td>
<td>3</td>
<td>ZOO 3703</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior Year</th>
<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
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<tr>
<td>Elective (if needed)</td>
<td>3</td>
<td>Elective (if needed)</td>
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**1. UCF General Education Program** (36 hrs)

- A. Communication Foundations 9 hrs
  - Prefer SPC 1600
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
  - Select MAC 1105
  - Select STA 2014C or 2023
- D. Social Foundations 6 hrs
  - Select ECO 2023
- E. Science Foundations 6 hrs

**2. Common Program Prerequisites** (9 hrs)

- CGS 2100CC Computer Fund for Business Applications or 3 hrs
- CGS1060C Intro to Computer Science
- ECO 2023 Microeconomics GEP
- ACG 2021 Financial Accounting 3 hrs
- ACG 2071 Managerial Accounting 3 hrs
- STA 2014C or Statistical Methods GEP
- STA 2023

Students must earn a “C” (2.0) or better in each Common Program Prerequisite course.

**3. Core Requirements** (45 hrs)

- HSA 3111 U.S. Health Care Systems 3 hrs
- HSA 3170 Health Care Finance 3 hrs
- HSA 3222 Long Term Care Administration 3 hrs
- HSA 4109 Principles of Managed Care 3 hrs
- HSA 4201 Community Health Services 3 hrs
- HSA 4180 Organization and Management for Health Agencies 3 hrs
- HSA 4191 Health Care Automation 3 hrs
- HSA 4502 Risk Management or 3 hrs
- HIM 4506 Quality Management
- HSA 4702 Health Sciences Research Methods 3 hrs
- HSC 3531 Medical Terminology 3 hrs
- HSC 3640 Health Law 3 hrs
- HSC 4500 Epidemiology 3 hrs
- HSC 4564 Health Care Needs of the Elderly 3 hrs
- HSC 4653 Health Care Ethics 3 hrs
- HSA 3430 Health Care Economics 3 hrs

Students must earn a “C” (2.0) or better in each Core Requirement course.

**4. Upper Division Restricted Electives** none

**5. Program Exit Requirements** (120 hrs)

Students must earn a “C” (2.0) or better in each Health Services Administration elective course.

**6. Electives** (variable)

Students are encouraged to take additional Health Service Administration courses as electives or other courses that will enhance their background in the health care industry. These may be used to build minors and certificates offered by the University. Examples include: Health Sciences, Aging Studies, Public Administration, Criminal Justice, and Business. HSA elective courses include:

- HSA 4941 HSA Internship
- HIM 4556C Health Information Management Systems
- HIM 3006 Foundations of Health Information Management
- HIM 4506 Quality Management

**7. Foreign Language Requirements** (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

**8. University Minimum Exit Requirements**

- A. 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP.
Tentative Course Schedule for Entering Freshmen

**Freshman Year**

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<th>Semester</th>
<th>Fall</th>
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<td>ENC 1101</td>
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**Sophomore Year**

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<th>Fall</th>
<th>Spring</th>
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<tbody>
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<td></td>
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**Summer**

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<tr>
<td>Foreign Language II</td>
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*If not satisfied in high school*

**Junior Year**

<table>
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<th>Spring</th>
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<tbody>
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<td>15 hrs</td>
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<td>HSA 4201</td>
<td>3</td>
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**Senior Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td></td>
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<td>15 hrs</td>
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<tr>
<td>HSA 3430</td>
<td>3</td>
<td>HSC 4564</td>
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<td>HSC 3640</td>
<td>3</td>
<td>HSA 4109</td>
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<tr>
<td>HSC 4653</td>
<td>3</td>
<td>Internship</td>
</tr>
<tr>
<td>HSA 4502 or HIM 4506</td>
<td>3</td>
<td>HSA 4702</td>
</tr>
<tr>
<td>Elective</td>
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<td>Elective</td>
</tr>
</tbody>
</table>

**Notes:**

Students are urged to have access to a personal computer, modern, and appropriate software to interact with the University and professors. A variety of internship opportunities are available for HSA majors. An internship is not required but highly recommended.

## HISTORY (B.A.)

**College of Arts and Humanities**

**History Department, CNH 551, http://pegasus.cc.ucf.edu/~history**

**E-mail:** history@ucf.edu

E. Kallina, 407-823-2224

**Admission Requirements:**

- none

**Degree Requirements:**

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each history course for it to be counted toward the major.
- Co-op credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF History Department.

**Gordon Rule:**

- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Students must compile a portfolio of their written work in history, completed inside and outside the classroom.
- Students must complete 36 hours in history.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program (36 hrs)

- A. Communication Foundations
- B. Cultural and Historical Foundations
- C. Mathematical Foundations
- D. Social Foundations
- E. Science Foundations

### 2. Common Program Prerequisites (0 hrs)

- AMH 2010*
- AMH 2020*

### 3. Core Requirements (9 hrs)

- Honor’s History-4150 History & Historians

### 4. Upper Division Restricted Electives (21 hrs)

- Select six hours of approved history courses within three of the four geographic regions.
  - 1) Asian, African, and Middle Eastern
  - 2) British and European
  - 3) Latin American
  - 4) U.S. and Canadian

### 5. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in upper division required courses attempted.
- Submit a portfolio during the semester of graduation. The portfolio will include representative samples of the student’s written work including, but not limited to, book critiques, in-class essay exams, and term papers.
- Computer Competency met by completion of the major.
- Students must complete at least 18 of the required 36 History hours at UCF.

### 6. Foreign Language Requirements (0-8 hrs)

- Admission: Met by graduation requirement.
- Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of historical interest.

### 7. Electives (variable)

- Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

**Total Semester Hours Required:** 120 hrs
UCC Degree Programs

Related Programs: Humanities

Related Minors: African-American Studies, American Studies, Asian Studies, Humanities, Judaic Studies, Latin American Area Studies, Women's Studies

Transfer Notes:
- Grades below "C" (2.0) are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- AMH 2010* & 2020*: may use any two introductory courses with an AMH, EUH, LAH, ASH, HIS or WOH prefix. However AMH 2010 and 2020 are prerequisites for all subsequent American History courses and will need to be taken for the major.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year
Fall
AMH 2010 U S His 1492 1877 3
BSC 1005* req# 1E2-GEP 3
ENC 1001 Composition I 3
ENG 1102 Composition II 3
POS 2041* req# 1D1-GEP 3
SPO 1600* req# 1A3-GEP 3

Spring
AMH 2020 U S His 1877 Pres 3
AST 2002* req# 1E1-GEP 3
ENG 1102 Composition II 3
MFT 1106* req# 1C1-GEP 3
SYG 2000* req# 1D2-GEP 3

Sophomore Year
Fall
ARH 2050* req# 1B3-GEP 3
CGS 100CC Intro to Comp Sci 3
EUH 2000* req# 3-Core 3
Elec* Check restrictions 3
SNP 1220* req# Lang/Elect 4

Spring
AMH 2010* req# 3-Core 3
EUH 2001* req# 3-Core 3
Elec* Check restrictions 3

Junior Year
Fall
HIS 4150 History & Histms 3
ASH 3222* req# 4.1-ResEle 3
EUH 3651* req# 4.2-ResEle 3
Elec* Check restrictions 3
Elec* Check restrictions 3

Spring
ASH 3223* req# 4.1-ResEle 3
EUH 3651* req# 4.2-ResEle 3
Elec* Check restrictions 3
Elec* Check restrictions 3

Senior Year
Fall
LAH 3130* req# 4.3-ResEle 3
AMH 3571* req# 4.4-ResEle 3
Elec* Check restrictions 3
Elec* Check restrictions 3
Elec* Check restrictions 3

Spring
AMH 3423* req# 4.4-ResEle 3
Elec* Check restrictions 3
Elec* Check restrictions 3
Elec* Check restrictions 3
Elec* Check restrictions 3

HISTORY ACCELERATED PROGRAM (B.A. and M.A.)

Accelerated Undergraduate/Graduate Program
Note: For detailed information about this program, see description in the "Accelerated Undergraduate/Graduate Program" section of this Undergraduate Catalog.

HOSPITALITY MANAGEMENT (B.S.)
Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-903-8000
http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam

Degree Requirements
1. UCF General Education Program (36 hrs)
   A. Communication Foundations
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
   Select MAC 1105 College Algebra 3 hrs

2. Common Program Prerequisites (3 hrs)
   HFT 1000 Introduction to Hospitality/Tourism

3. Hospitality Management Core
   (52 hrs)
   A. Quantitative Tools
   CGS 2100C Computer Fundamentals of Business (GEP)
   or STA 2023 Statistical Methods I 3 hrs
   ECO 2013 Microeconomics (GEP)
   or ECO 2023 Microeconomics (GEP)
   MAC 1105 College Algebra (GEP)
   B. Fundamentals
   FSS 2221C Quantity Food Preparation 3 hrs
   HFT 3540 Guest Services Management 3 hrs
   C. Managerial Tools
   HFT 2403 Hospitality Financial Accounting 3 hrs
   HFT 3431 Hospitality Managerial Accounting 3 hrs
   HFT 2500 Hospitality Marketing 3 hrs
   HFT 2220 Hospitality Human Resource Mgmt 3 hrs
   HFT 3444 Hospitality Information Systems 3 hrs
   HFT 3600 Legal Environment in Hospitality 3 hrs
   HFT 4254 Leadership and Strg Mgmt in Hospitality Ind 3 hrs
   HFT 4286 Hospitality Communications 3 hrs
   HFT 4462 Hospitality Industry Finance 3 hrs
   D. Sectoral Studies – Choose 5 of the following 6 courses (15 hrs)
   HFT 2254 Lodging Operations 3 hrs
   HFT 3700 Tourism Management 3 hrs
   HFT 2750 The Event Industry 3 hrs
   HFT 3261 Restaurant Management 3 hrs
   HFT 3273 Principles of Resort Time Sharing 3 hrs
   HFT 4755 Theme Park and Attraction Mgmt 3 hrs
   E. Internships
   HFT 3940 Internship I 1 hr
   HFT 4941 Internship II 1 hr
   HFT 4941 Internship III 1 hr
   F. Guest Lectures
   HFT 3933 Distinguished Lectures in Hospitality Management 1 hr

4. Special College Requirements:
   Final exams will be given during Final Exam Week only.
   Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management core classes or restricted electives at UCF.

5. Restricted Electives:
   Students must take 15 credit hours of Hospitality Management courses from the following list for the Generalist track. Alternatively, students may choose one of the seven specialized career tracks as outlined below.

A. Generalist Track
   Choose five advanced courses from the following list:
   HFT 3313 Hospitality Physical Plant Management 3 hrs
   HFT 4343 Hospitality Facilities Planning & Design 3 hrs
   HFT 3498 Hospitality Business Consulting 3 hrs
   HFT 4473 Hotel Development Analysis 3 hrs
   HFT 3785 Management of Gaming Enterprises 3 hrs
   HFT 3807 Multi-Unit Food Service Organizations 3 hrs
   HFT 3813C Beverage Management 3 hrs
   HFT 3933C Catering and Banquet Organization 3 hrs
   HFT 4753 Convention & Conference Services 3 hrs
   HFT 4754 Exhibit & Trade Show Operations 3 hrs
   HFT 4735 Tourism Geography 3 hrs
   HFT 4722 Travel Agency Management 3 hrs
   HFT 4762 Current Practices in the Airline Industry 3 hrs
   HFT 4275 Development of Vacation Ownership Resorts 3 hrs
   HFT 3741 Meeting Management 3 hrs
   HFT 3757 Event Management 3 hrs
   HFT 4266 Restaurant Brand Management 3 hrs
   HFT 4268 Case Studies in Restaurant Management 3 hrs
   HFT 4644 Sanitation Mgmt in Foodservice Industry 3 hrs
   HFT 4274 Vacation Ownership Resort Management 3 hrs

Select CGS 2100CC Computer Fundamentals for Bus or STA 2023 Statistical Methods I 3 hrs
Select ECO 2013 Microeconomics or ECO 2023 Microeconomics 3 hrs
Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
E. Science Foundation 3 hrs

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>HFT 4532</td>
<td>Managing the Employee Experience in Theme Parks and Attractions</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4758</td>
<td>Contemporary Issues in the Theme Park and Attractions</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4532</td>
<td>Managing the Employee Experience in Theme Parks and Attractions</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4758</td>
<td>Contemporary Issues in the Theme Park and Attractions</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4532</td>
<td>Managing the Employee Experience in Theme Parks and Attractions</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### E. Tourism Management Track (15 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HFT 4735</td>
<td>Tourism Geography</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4722</td>
<td>Travel Agency Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4762</td>
<td>Current Practices in the Airline Industry</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4754</td>
<td>Exhibit &amp; Trade Show Operations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 3757</td>
<td>Event Management</td>
<td>3 hrs</td>
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### F. Lodging Management Track (15 hrs)

<table>
<thead>
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<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HFT 3313</td>
<td>Hospitality Physical Plant Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4343</td>
<td>Hospitality Facilities Planning &amp; Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4473</td>
<td>Hotel Development Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4432</td>
<td>Hospitality Industry Auditing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4413</td>
<td>Technology Applications for Management</td>
<td>3 hrs</td>
</tr>
</tbody>
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### G. Hospitality Financial Management and Technology (15 hrs)

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<thead>
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<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>HFT 4442</td>
<td>Vacation Ownership Resort Reservations/ Data Base Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4473</td>
<td>Hotel Development Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4453</td>
<td>Food, Beverage and Labor Cost Controls</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4432</td>
<td>Hospitality Industry Auditing</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4413</td>
<td>Technology Applications for Management</td>
<td>3 hrs</td>
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### H. Golf Management Track – Choose 5 Courses (15 hrs)

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<th>Course Title</th>
<th>Hours</th>
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<tr>
<td>HFT 1350</td>
<td>Career and Promotional Development in Golf</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 1357</td>
<td>Golf Event Operations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 1356</td>
<td>Concepts and Practices of Golf Assoc.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 2359</td>
<td>Design and Maintenance of Golf Equip</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 3353</td>
<td>Golf Planning and Operations I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 3355</td>
<td>Golf Planning and Operations II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 3354</td>
<td>Agronomy for Golf Course Mgmt</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4358</td>
<td>Golf Course Facility Design</td>
<td>3 hrs</td>
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### 6. Foreign Language Requirements (0-8 hrs)
State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

### 7. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

### 8. Unrestricted Electives (6-14 hrs)
As necessary to result in 120 total credit hours.

### Total Semester Hours Required
120 hours

**UCF Degree Programs**

**Four Year Plan of Study for Hospitality Management**

**Freshman Year**

<table>
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<tr>
<th>Semester</th>
<th>Courses</th>
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<tr>
<td>Fall</td>
<td>ENC 1101, Cult-Hist I, CJS 2100C or STA 2033</td>
</tr>
<tr>
<td>Spring</td>
<td>ENC 1102, Cult-Hist II, SPC 1600</td>
</tr>
</tbody>
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179
HFT 1000 3  HFT 2500 Hospitality Marketing 3  humanities may be substituted for some courses with prior approval by department advisor.

A. Classical Humanities
1. Foundations
   HUM 4301 The Classical Ideal (9 hrs)
   Select two courses
   HUM 3431 Ancient Humanities
   HUM 3435 Medieval Humanities
   HUM 3525 Modern Humanities

2. Western Traditions and Applications
   ARH 4310 Italian Renaissance Art (9 hrs)
   HUM 4170 Greek and Roman Art
   HUM 3552 Christian Thought
   HUM 3553 Moses, Jesus, & Mohammed
   CLA 3850 Classical Mythology
   CLA 3851 Comparative Mythology
   JST 3401 The Jewish People I
   REL 3432 Roots of Western Mysticism

3. World Intellectual Traditions:
   (6 hrs)
   Select one
   ANT 3245 Native American Religions
   HUM 3401 Asian Humanities
   HUM 3417 Hindu Thought and Culture
   HUM 3419 Islamic Thought and Culture
   HUM 3XXX Latin American Humanities
   HUM 4930 The Spiritual Ideal
   HUM 4554 Religious Quest and the Human Dilemma
   PHI 3XXX African Philosophy

B. Multicultural Humanities
1. Foundations
   HUM 3250 Contemporary Multicultural Studies (9 hrs)
   Select one
   HUM 3431 Ancient Humanities
   HUM 3435 Medieval Humanities
   HUM 3525 Modern Humanities

2. Traditions and Applications
   (15 hrs)
   Select one
   ANT 3311 Indians of the Southeastern US
   ARH 3520 African Art
   HUM 3401 Asian Humanities
   HUM 3417 Hindu Thought and Culture
   HUM 3419 Islamic Thought and Culture
   HUM 3XXX Latin American Humanities
   JST 3401 The Jewish People I
   PHH 3700: American Philosophy
   PHM 3123 Feminist Theory
   REL 3162: Healing: Culture, Art, and Praxis

C. Critical Humanities
1. Foundations
   HUM 3255 Modern Humanities (9 hrs)
   HUM 3252 Contemporary Humanities
   PHI 4804 Critical Theory

2. Traditions and Applications
   (15 hrs)
   Select one
   HUM 4330 Performance Theory
   HUM 4554 Religious Quest and the Human Dilemma
   HUM 3930 Representations of Place and Space
   PHH 3510 Marx and Nietzsche
   PHH 3600 Contemporary Philosophy
   PHI 3638 Ethical Issues in the 21st Century
   PHI 4321 Philosophy of Embodiment: Mind/Body/Self
   PHI 3033 Philosophy, Religion, and the Environment
   PHI 3022 Sexuality, Gender, and Philosophy
   PHI 3803 Philosophy and Creativity
   PHM 3123 Feminist Theories
   PHP 3786 Existentialism
   PHP 3783 Modernity as a Philosophical Problem
   PHP 4762 Phenomenology
   REL 3111 Religion and Philosophy through Film
   REL 3115 Religion, Spirituality, and Popular Music
   REL 3162 Healing: Culture, Art, and Praxis
   HUM 3800 Research Methods in Humanities

5. Upper division Restricted Electives
   (3 hrs)
   Select one course from the “Traditions and Applications” category in
   the concentrations that are not being used to satisfy Core
   Requirements, or from the following:

2006-2007 Undergraduate Catalog
6. Honors in the Major
Students considering graduate school in humanities are strongly encouraged to take Honors in the Major. Requirements are as follows:

Core and Elective Requirements (30 hrs)

Honors Thesis
- HUM 4903H Honors Directed Readings 3 hrs
- HUM 4970H Honors Thesis 3 hrs

Additional Requirements
- Application and admission through the Humanities Honors Coordinator and the Burnett Honors College
- Fulfill University requirements for Honors in the Major
- Earn a “B” (3.0) or better in both HUM 4903H and HUM 4970H
- Maintain a UCF GPA of at least 3.2 and a Humanities GPA of at least 3.5
- Successful completion and oral defense of Honors thesis

7. Departmental Exit Requirements
- Earn a “C” (2.0) or better in each required course
- Computer Competency met by HUM 4970H, HUM 4933, or by STA 1060C.
- To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

8. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside the department.

10. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

HUMANITIES—PHILOSOPHY, RELIGION & POPULAR CULTURE TRACK (B.A.)

College of Arts and Humanities
Philosophy Department, CNH 411
e-mail: philosophy@ucf.edu
Advisor: Bruce Janz, 407-823-2273; Fax: 407-823-6658
Advisor (Cocoa): Shelley Park; 321-433-7919

Admission Requirements
- none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior approval by the chair.
- Students must earn at least a “C” (2.0) in each required course.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations
- Select HUM 2210 Humanistic Tradition I 3 hrs
- Select HUM 2230 Humanistic Tradition II 3 hrs
- Select REL 2300 World Religions or PHI 2010 Intro to Phil 3 hrs
C. Mathematical Foundations
- Prefer MGF 1106 Finite Mathematics (May substitute a higher level math) 6 hrs
- Prefer STA 1060C Statistics Using Excel
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites (18 hrs)
A. Core (0 hrs)
- HUM 2210 Humanistic Traditions I GEP
- HUM 2230 Humanistic Traditions II GEP
- PHI 2010 Intro to Philosophy GEP
B. Theoretical Foundations (6 hrs)
- PHI 3684 Ways of Living
- PHI 4341 Ways of Knowing
C. Philosophy (6 hrs)
Select two courses:
**UCF Degree Programs**

**PHI 2101** Critical Thinking  
**PHI 3670** Ethical Theory  
**PHI 3700** Philosophy of Religion  
**PHI 3800** Aesthetics  
**PHM 3100** Freedom and Justice  
**PHI 3720** Faith and Reason  
**PHP 3786** Existentialism  
**PHI 4804** Critical Theory  
**PHI 4300** Theories of Knowledge

d. **Religion** (6 hrs)  
Select two courses:  
- **CLA 3851** Comparative Mythology  
- **HUM 3552** Christian Thought  
- **HUM 3553** Moses, Jesus, and Mohammed  
- **HUM 3417** Hindu Thought and Culture  
- **HUM 3419** Islamic Thought and Culture  
- **HUM 4303** The Spiritual Ideal  
- **HUM 4554** Religious Quest and the Human Dilemma  
- **PHI 3750** The Problem of Evil

4. **Popular Culture Studies** (12 hrs)  
a. **Contemporary Media** (6 hrs)  
Select two courses:  
- **HUM 3220** Contemporary Multicultural Studies  
- **HUM 4565** Religion and the Arts  
- **HUM 4330** Performance Theory  
- **PHI 3625** Virtual Ethics  
- **PHI 4031** Philosophy in the News  
- **POS 3235** Mass Media and Politics  
- **POS 3258** Politics in Film  
- **REL 3115** Religion, Spirituality and Popular Music  
- **REL 3111** Religion and Philosophy through Film  
- **SYP 3630** Sociology of Popular Culture

b. **Contemporary Forms of Life** (6 hrs)  
Select two courses:  
- **ANT 3302** Sex, Gender and Culture  
- **HUM 3252** Contemporary Humanities  
- **PHI 3022** Sex, Gender and Philosophy  
- **PHI 3930** Family Values  
- **PHI 3033** Philosophy, Religion and the Environment  
- **PHI 3401** Philosophy of Law  
- **PHI 3638** Ethical Issues in the 21st Century  
- **PHI 3683** Philosophy of Friendship  
- **PHI 3XXX** Philosophy of Love  
- **PHM 3123** Feminist Theories  
- **PHI 4321** Philosophies of Embodiment: Mind/Body/Self  
- **REL 3131** Religion in America  
- **REL 3162** Healing: Culture, Art, and Praxis

5. **Capstone Course** (3 hrs)  
**HUM 4933** Senior Research Seminar

6. **Honors in the Major (Optional)**  
Students considering graduate school in humanities are strongly encouraged to take Honors in the Major. Requirements are as follows:

a. **Core Requirements, Popular Culture and Capstone** (33 hrs)  
Same requirements as for regular majors

b. **Honors Thesis** (6 hrs)  
**HUM 4903H** Honors Directed Readings 3 hrs  
**HUM 4970H** Honors Thesis 3 hrs

c. **Additional Requirements of Honors in the Major**  
- 95 Application and admission through the Humanities Honors Coordinator  
- 95 Fulfill University requirements for Honors in the Major  
- 95 Earn a “B” (3.0) or better in both HUM 4903H and HUM 4970H  
- 95 Maintain a UCF GPA of at least 3.2 and a Humanities GPA of at least 3.5  
- 95 Successful completion and oral defense of Honors thesis

7. **Departmental Exit Requirement**  
- Departmental Exit Exam in final semester.  
- Earn a “C” (2.0) or better in each required course  
- Computer Competency met by HUM 4970H, HUM 4933, or STA 1060C.

To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

8. **Foreign Language Requirements** (0-8 hrs)  
**Admission:** Met by graduation requirement  
**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

9. **Electives** (variable)  
Select primarily from upper level courses, with departmental advisor’s approval. May be outside the department.

10. **University Minimum Exit Requirements**  
- 2.0 UCF GPA  
- 60 semester hours earned after CLEP awarded  
- 48 semester hours of upper division credit completed  
- 30 of the last 36 hours of course work must be completed in residence at UCF  
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted  
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required**  
**120 hrs**

**Related Programs:** Humanities or Religious Studies, Philosophy  
**Related Minors:** Humanities, Philosophy, Religious Studies

**Transfer Notes:**  
- Courses taken at community colleges do not substitute for Upper Division courses.  
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**INDUSTRIAL ENGINEERING (B.S.I.E.)**  
**College of Engineering and Computer Science**  
**Industrial Engineering & Management Systems (IEMS) Department**  
**ENG2 312, 407-823-2204, Fax: 407-823-3413**  
**http://www.iems.ucf.edu/**  
Sandy Furterer, E-Mail: furterer@mail.ucf.edu

**Admission Requirements:**  
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes; see also the section, Orientation, found elsewhere in this catalog.

**Degree Requirements**  
- Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. **UCF General Education Program for Engineering Students** (36+2 hrs)  
**A. Communication Foundations**  
- 9 hrs  
  1. Select ENC 1101 & ENC 1102  
  2. Prefer SPC 1016

**B. Cultural and Historical Foundations**  
- 9 hrs  
  1. Select two courses from Historical Foundations  
  2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120

**C. Mathematical Foundations**  
- 7 hrs  
  1. Select MAC 2311 (PR: MAC 1141)  
  2. Select STA 3032 (PR: MAC 2312)

**D. Social Foundations**  
- 6 hrs  
  1. Prefer ECO 2013 or ECO 2023  
  2. ANT 2000, PSY 2012, or SYG 2000

2. **Science Foundations**  
- 7 hrs  
  1. Select PHY 2048G (PR: MAC 2311)  
  2. ANT 2011, BSC 2050S, BSC 2050, GLY 1030, GEO 1200, or MCB 1310

**2. Common Program Prerequisites (CPP's)** (19 hrs)  
These courses are specifically required for all engineering students.
of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. A 2.0 cumulative GPA or better is required for those courses in section 2, marked with an asterisk (*). Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440 Fundamentals of Chemistry for Eng* 4 hr
MAC 2311 Calculus with Analytic Geometry I* 4 hrs
MAC 2312 Calculus with Analytic Geometry II* 4 hrs
MAC 2313 Calculus with Analytic Geometry III* 4 hrs
MAP 2302 Differential Equations* 3 hrs
PHY 2048/49L Physics for Engineers & Scientists I* GEP
PHY 2049/49L Physics for Engineers & Scientists II* 4 hrs
ENC 1101 Composition I GEP
ENC 1102 Composition II GEP
Humanities Courses GEP
Social Science Courses GEP
Humanities or Social Sciences GEP

3. Courses Required for the Engineering Core (22 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the courses for the major listed in 4., the technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1111C Engineering Computer Graphics 2 hrs
EGN 1007C Engineering Concepts & Methods 1 hr
EGN 3211 Engineering Analysis & Computation 3 hrs
EGN 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics 3 hrs
EGN 3359 Thermofluids - Heat Transfer or Thermodynamics 3 hrs
EGN 3365 Structure & Properties of Materials 3 hrs
EGN 3373 Principles of Electrical Engineering 3 hrs

4. Courses Required for the Major (40 hrs)
The Industrial Engineering and Management Systems department requires all students within the major to achieve a 2.0 GPA or better in each course listed in sections 4., 5., and 6.

EGN 3613 Engineering Economic Analysis 2 hrs
EGN 4624 Engineering Administration 3 hrs
STA 3022 Probability & Statistics for Engineers GEP
EIN 3000 Introduction to IE & MS 2 hrs
EIN 3314C Work Measurement & Design 3 hrs
EIN 3354 Principles of Cost Engineering 3 hrs
EIN 4628C IE Applications of Computers 3 hrs
EIN 4243C Human Engineering 3 hrs
EIN 4333C Industrial Control Systems 3 hrs
EIN 4364C Industrial Planning & Design 3 hrs
EIN 4391C Manufacturing Engineering 3 hrs
ESI 4221 Mechanical Systems for IE 3 hrs
ESI 4234 Quality Engineering 3 hrs
ESI 4312 Operations Research 3 hrs
ESI 4523C Systems Simulation 3 hrs

5. Approved Technical Electives (3 hrs)
Technical electives are available in the BSIE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

6. Departmental Graduation Requirements (6 hrs)
- EIN 4516C Systems Analysis & Design 3 hrs
- EIN 4891C IE Senior Design Project 3 hrs
- Take the Fundamentals Exam during the Senior year.

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None.

8. University Minimum Graduation Requirements
- A 2.0 UCF GPA.

■ 60 semester hours earned after any CLEP award.
■ 48 semester hours of upper division credit completed.
■ 30 of the last 36 hours of course work must be completed in residence at UCF.
■ 25% of course work must be completed in residency at UCF.
■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
■ Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Mechanical Engineering.
Related Minors: Engineering Leadership & Management

Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen
The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Industrial Engineering - 128 semester hours required

FIRST YEAR
Fall 12 hrs1,2
- *CHS 1440 Fund of Chem/Engrs 4
- *ENC 1101 English Comp I 3
- *MAC 2311 Calc with Analytic Geo 4
- EIN 1006C Intro to Eng 1
- MAC 2311 Calc with Analytic Geo 4
- PHY 2048/L Phys Engr/Sci I 4

Spring 12 hrs1,2*
- EIN 4243C Human Engr 3
- EIN 4391C IE Senior Design Project 3

SECOND YEAR
Fall 13 hrs1
- ECO 2013 Macroeconomics or
- MAC 2312 Calc with Analytic Geo II 4
- PHY 2049/L Phys Engr/Sci II 4
- EIN 3310 Engr Anal-Statics 3
- EIN 3000 Intro to IE & Mgt Sys 2
- MAC 2312 Calc with Analytic Geo II 4

Spring 12 hrs1
- ECO 2023 Microeconomics 3
- EIN 3000 Intro to IE & Mgt Sys 2
- MAC 2312 Calc with Analytic Geo II 4
- EIN 3310 Engr Anal-Statics 3

Summer 9 hours1
- EIN 3365 Strctr & Prop Matls 3
- ECO 2013 Macroeconomics or
- ECO 2023 Microeconomics 3

THIRD YEAR
Fall 12 hrs
- EIN 3314C Work Meas & Dsgn 3
- EIN 4381C IE Senior Design Project 3
- ENS 111UC Cmptnr Graphics 3
- EIN 4391C IE Sr. Design Proj 3

Spring 15 hrs1
- EIN 4333C IC Designs & Syst 3
- EIN 4391C IE Senior Design Project 3
- EIN 4391C IE Sr. Design Proj 3

FORTH YEAR
Fall 12 hrs
- EIN 4624C Engineering Admin 3
- EIN 3388 Therm-Fluids-Heat Trans 3
- EIN 4391C IE Senior Design Project 3

Spring 12 hrs
- EIN 4628C IE Computer Appl 3
- EIN 4391C IE Sr. Design Proj 3
- EIN 4391C IE Senior Design Project 3

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
UCF Degree Programs

2. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

Accelerated BS/MS Degree Program
The Industrial Engineering & Management Systems Department offers the Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

INFORMATION SYSTEMS TECHNOLOGY (B.S.)
College of Engineering and Computer Science
Engineering Technology (ENT) Department
ENGR 207
Coordinator: Bahman Motlagh
407-823-4748 Fax: 407-823-4746
http://www.ENT.ucf.edu

Admission Requirements
Students should complete 33 credit hours of lower level technical courses at a community college. Technical courses will be accepted in the following areas: networking, programming, information technology, computer science, and computer engineering and technology or closely related disciplines.

Degree Requirements
- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (nine hours completed in AS degree program)
   1. ENC 1101 & ENC 1102
   2. Prefer SPC 1016
   B. Cultural and Historical Foundations (3 hrs taken in AS degree program)
   1. Select MAC 1105
   2. Select STA 2023 (completed in AS degree program)

2. Upper Level Required Courses Taken at Community College (33 hrs)

3. Prerequisite Courses (14 hrs)
   (C or better grade required in all courses)
   MAC 1105 College Algebra and
   MAC 1114 College Trigonometry or
   MAC 2147 Mathematics for Calculus
   EET 3085C Electricity & Electronics
   CET 3323C Digital Technology
   CET 2364 Systems Applications in C

4. Required Technical Courses (27 hrs)
   (C or better grade required in all courses)
   CET 3529 Linux/Unix Sys Admin
   CET 3010 Intro to Info Technology
   CET 4427 Applied Database I
   CET 3383 Applied Systems Analysis I
   CET 4505 Applied Operating Systems I
   CET 3752 Intro to Telephony
   CET 4483 Intro to Local Area Network
   CET 4333 Computer Organization & Design
   CET 4748 Wide Area Networks I

5. IST Support Courses (6 hrs)
   ENC 3241 Writing For Technical professional
   ETI 4449 Applied Proj Mgmt
   STA 2023 Statistical Methods

6. Technical Electives (12 hrs)
   (C or better grade required in all courses)
   Choose four from the following
   CET 3198C Digital Systems

7. Departmental Exit Requirements
   none

8. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

9. Approved Technical Electives
   Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

10. University Minimum Graduation Requirements
    - A 2.0 UCF GPA
    - 60 semester hours earned after any CLEP award
    - 48 semester hours of upper division credit completed
    - 30 of the last 36 hours of course work must be completed in residency at UCF
    - 25% of course work must be completed in residency at UCF
    - As maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
    - Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hrs

Related Programs: Secure Computing and Networks
Related Minors: none

Transfer Notes:
- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.

Tentative Course Schedule for Transferring Students
The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year
Fall
- EET 3085C Elect & Electronics
- CET 3010 Intro to Info Tech
- CED 3529 Linux/Unix Sys Admin

Spring
- EET 3085C Elect & Electronics
- CET 3010 Intro to Info Tech
- CED 3529 Linux/Unix Sys Admin

Senior Year
Fall
- EET 3085C Elect & Electronics
- CET 3010 Intro to Info Tech
- CED 3529 Linux/Unix Sys Admin

Spring
- EET 3085C Elect & Electronics
- CET 3010 Intro to Info Tech
- CED 3529 Linux/Unix Sys Admin
INFORMATION SYSTEMS TECHNOLOGY (B.S.)
AS to BS Track
Note: For detailed information about this program, see description in the AS to BS Program section.

INFORMATION TECHNOLOGY (B.S.)

College of Engineering and Computer Science
School of Electrical Engineering & Computer Science
Harris Corp Engineering Ctr, Rm 245
E-mail: it@cs.ucf.edu
http://www.cs.ucf.edu/
S. Lang 407-823-2341

Degree Requirements
- Students must earn at least a “C” (2.0) in each course in 2-5.
- Students should consult with a departmental advisor.
- A Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-5000 level courses taken from the School of Computer Science at UCF.
- 12 of the 24 Residency hours must be at the 4000-5000 level.

1. UCF General Education Program (36 hrs)
A. Communication Foundations
  1. ENC 1101 & ENC 1102
  2. Prefer SPC 1016
B. Cultural and Historical Foundations
  1. Select MAC 1105
  2. Select STA 2023
C. Mathematical Foundations
  1. Math for Calculus GEP
  2. STA 2033
  3. ECO 2013
D. Social Foundations
  1. Social Foundations
  2. Select STA 2023
E. Science Foundations
  1. PHY 2053C
  2. PHI 3626

2. Common Program Prerequisites (3 hrs)
MAC 2147
STA 2033
ECON 2013
PSY 2012
PSY 2012
PHI 3626

3. Core Requirements (43 hrs)
COP 3223
COP 3502C
COP 3503C
COP 3330
MAD 2104
EEL 3041
EEL 3520
CGS 2289
CGS 2546C
EEL 4882
EEL 4610L
CGS 3285
EEL 4602
CD 4506C

A minimum grade of “C” (2.0) must be made on each of the required core courses. A three credit internship approved by the Information Technology Program Coordinator for the Frontiers in Information Technology (COP 4910) requirement.

4. Support Courses (6 hrs)

5. Restricted Electives (15 hrs)
15 hours of upper division courses taken outside of the information technology core requirements. At least nine of these hours must be at or above the 4000 level. The remaining six are at the 3000 level or above. These courses are in areas of the student’s choosing. The only restriction is on the level of the courses, not the departments from which they come. However, students are strongly advised to make this a cohesive set of courses. Many departments have plans whereby students can achieve a certification at 15 credits, and a minor at 18. No co-operative education or internship hours are allowed.

6. School Exit Requirements
- Complete an exit interview with an assigned faculty advisor
- Computer competency met by completion of major

7. Free Electives (14 hrs)

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Computer Science, Computer Engineering, Management Information Systems
Related Minors and Certificates: Information Technology, Computer Science, Secure Computing and Networks

Transfer Notes:
- Grades below “C” (2.0) are not accepted
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

FIRST YEAR
Fall 17 hrs
COP 3330 Intro to OO/Java 3
ECON 1101 English Comp I 3
PHI 3626 Ethics in Science and Technology 3
Spring 15 hrs
ENC 1101 English Comp I 3
MAC 2147 Math for Calculus 5
COP 3502C Comp Science I 3
Free Elective 3

SECOND YEAR
Fall 16 hrs
COP 3502C Computer Science I 3
EEL 3041 Circuit Analysis 3
CGS 2289 Computer Architecture Concepts 3
EEL 3520 Information Theory 3
Spring 15 hrs
APP 3380 Programming III 3
MAD 2104 Foundations of Discrete Mathematics 3
EEL 4610L Programming Labs 3
CGS 2546C Database Concepts 3

THIRD YEAR
Fall 15 hrs
CGS 3285 Computer Network Concepts 3
COP 4510 Frontiers of Information Technology 3
EEL 4602 Eng. Sys. SW (Operating Systems) 3
ECON 3241 Tech Rept Writing 3
Spring 12 hrs
CD 4506C Network Lab 3
EEL 4882 Eng Sys SW 3
EEL 3520 Applied Proj Mgmt 3

FOURTH YEAR
Fall 15 hrs
COP 4910 Frontiers of IT 3
CD 4506C Network Lab 3
Spring 15 hrs
CRW 3930 Creative Writing 3
CD 4506C Network Lab 3

UCF Degree Programs
### UCF Degree Programs

**INTERPERSONAL/ ORGANIZATIONAL COMMUNICATION (B.A.)**

**College of Sciences**  
Nicholson School of Communication, COM 258  
407-823-2852  
http://www.cas.ucf.edu/communication  
E-mail: communication@ucf.edu

**Contact:** Susan Jefferson  
**E-mail:** communication@ucf.edu  
**http://www.cas.ucf.edu/communication**  
407-823-2852  
Nicholson School of Communication, COM 258

**College of Sciences**  
**Nicholson School of Communication, COM 258**  
**407-823-2852**  
**http://www.cas.ucf.edu/communication**  
**E-mail:** communication@ucf.edu

**Contact:** Susan Jefferson  
**E-mail:** communication@ucf.edu  
**http://www.cas.ucf.edu/communication**  
407-823-2852  
Nicholson School of Communication, COM 258

### Admission Requirements

- None

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit can be used in this major with prior advisor approval.
- Students cannot exceed a total of six credits of internship, Co-op, and independent study credits combined.
- Students should consult with a departmental advisor.
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF School of Communication.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 &amp; ENC 1102</td>
<td>6 hrs</td>
</tr>
<tr>
<td>SPC 1600</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CGS 2100CC</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CGS 2585C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CGS 3175</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 2014C</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**A. Communication Foundations**

- Select ENC 1101 & ENC 1102 and SPC 1600 and CGS 2100CC and CGS 2585C and CGS 3175 and STA 2014C

**B. Cultural and Historical Foundations**

- Select SPC 1600 and SPC 1600

**C. Mathematical Foundations**

- Select MGF 1106 and STA 2014C

**D. Social Foundations**

- Select ENC 1101 & ENC 1102

**E. Science Foundations**

- Select CGS 2100CC

### 2. Common Program Prerequisites

- SPC 1016 Fund of Technical Presentations GEP

### 3. Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 1060C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 2014C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>COM 3311</td>
<td>3 hrs</td>
</tr>
<tr>
<td>COM 3311</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPC 3301</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**a. Select one course**

- STA 1060C Basic Statistics Using Excel

**b. Complete the following**

- COM 3011C Communication & Human Relations
- COM 3120 Organizational Communication
- COM 3311 Communication Research Methods
- SPC 3301 Interpersonal Communication

**c. Select one course**

- PUR 4110C Public Relations Publications
- CGS 2100CC Computer Fundamentals for Business
- CGS 2585C Desktop/Internet Publishing (PR: CGS 1060C)
- CGS 3175 Internet Applications (PR: CGS 1060C)

### 4. Restricted Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 3011C Interpersonal Communication</td>
<td>3 hrs</td>
</tr>
<tr>
<td>COM 3311 Communication Research Methods</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPC 3301 Interpersonal Communication</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**A maximum of 6 credits of any combination of the following can be used**

- COM 4941 Internship
- COM X949 Coop
- SPC X949 Coop
- COM 4906 Directed Independent Study

**A maximum of 3 credits of the following can be used**

- ENC 3250 Professional Writing
- ENC 3311 Adv Expository Writing
- ENC 3241 Writing for the Tech Professional

### 5. External Restricted Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 3250 Professional Writing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 3311 Adv Expository Writing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 3241 Writing for the Tech Professional</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**A minimum of six upper division credit hours selected from courses in Anthropology, Business, Criminal Justice, Legal Studies, Political Science, Psychology, Public Administration, and Sociology.**

### 6. School Exit Requirements

- Achieve a "C" (2.0) or better average GPA in Nicholson School courses.
- To avoid graduation delays, meet with your advisor to review graduation requirements before registering for your last term.
- Computer Competency met by achieving a "C" (2.0) or better in PUR 4110C, CGS 2100CC, CGS 2585C, CGS 3175, or by departmental assessment.

### 7. Foreign Language Requirements

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

### 8. Electives

**(variable)**

Select primarily from upper level courses. May be taken outside of the School of Communication.

### 9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

**Total Semester Hours Required**

**120 hrs**

**Related Minors:** Mass Communication, Interpersonal Communication, Organizational Communication.

**Transfer Notes:**

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Suggested Plan of Study:**

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

**Freshman Year**

- **Fall**
  - ENC 1101 Composition I 3
  - MGF 1106* req# 1C1-GEP 3
  - Elective* Check restrictions 3
- **Spring**
  - ENC 1102 Composition II 3
  - STA 2014C Prin of Statistics 3
  - Elective* Check restrictions 3

**Sophomore Year**

- **Fall**
  - ANT 2005* req# 1D2-GEP 3
  - BSC 1055* req# 1E2-GEP 3
  - Elective* Check restrictions 3
- **Spring**
  - ARH 2050* req# 1B3-GEP 3
  - POS 2041* req# 1D1-GEP 3
  - Elective* Check restrictions 3

**Junior Year**

- **Fall**
  - COM 3011C Com Reltn 3
  - COM 3110* req# 4-ResElec 3
  - Elective* Check restrictions 3
- **Spring**
  - COM 3311 Com Res Methods 3
  - ENC 3250* req# 4-ResElec 3
  - Elective* Check restrictions 3

**Senior Year**

- **Fall**
  - ENC 3250* req# 4-ResElec 3
  - Elective* Check restrictions 3
- **Spring**
  - ENC 3250* req# 4-ResElec 3
  - Elective* Check restrictions 3

**Graduation:** Met by graduation requirement

**Total Semester Hours Required**

**120 hrs**

**Related Minors:** Mass Communication, Interpersonal Communication, Organizational Communication.

**Transfer Notes:**

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Suggested Plan of Study:**

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

**Freshman Year**

- **Fall**
  - ENC 1101 Composition I 3
  - MGF 1106* req# 1C1-GEP 3
  - Elective* Check restrictions 3
  - STA 2014C Prin of Statistics 3
  - Elective* Check restrictions 3
- **Spring**
  - ENC 1102 Composition II 3
  - STA 2014C Prin of Statistics 3
  - Elective* Check restrictions 3

**Sophomore Year**

- **Fall**
  - ANT 2005* req# 1D2-GEP 3
  - BSC 1055* req# 1E2-GEP 3
  - Elective* Check restrictions 3
- **Spring**
  - ARH 2050* req# 1B3-GEP 3
  - POS 2041* req# 1D1-GEP 3
  - Elective* Check restrictions 3

**Junior Year**

- **Fall**
  - COM 3011C Com Reltn 3
  - COM 3311 Com Res Methods 3
  - ENC 3250* req# 4-ResElec 3
  - Elective* Check restrictions 3
- **Spring**
  - COM 3311 Com Res Methods 3
  - ENC 3250* req# 4-ResElec 3
  - Elective* Check restrictions 3
**JOURNALISM (B.A.)**

**College of Sciences**
**Nicholson School of Communication,**
COM 244, 407-823-2839,
http://www.cas.ucf.edu/communication
E-mail: journalism@ucf.edu
Contact: Fred Fedeler

**Limited Access program**

**Admission Requirements**
- Students should apply to become Journalism majors only after completing all requirements for admission. Deadlines are:
  - October 1 to be admitted the next Spring term
  - July 1 to be admitted the next Fall term
- Admission is based on multiple factors, not strictly GPA.
- Students must have a 2.5 GPA or higher and provide acceptable keyboard skills.
- Students must enroll in a maximum of three 2-credit internships.
- A portfolio of representative work must be submitted to faculty for review.
- Co-op or internship credit cannot be used in this major without prior approval.
- Students should consult with a school advisor.
- Students must adopt the most current catalog.

**Degree Requirements**
- Students who change degree programs and select this major must meet all of the current catalog.
- The Journalism faculty strongly recommends that majors work at a student newspaper.
- Students can enroll in a maximum of three 2-credit internships. The internships must be different employers.
- Students cannot exceed a total of seven credits of internship.
- To ensure completion within 120 hours, students must adopt the most current catalog.
- Students must complete an 18-hour minor in an academic area outside of the Nicholson School of Communication.

**1. UCF General Education Program**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 3120 Org Communication 3</td>
<td>COM 3462* req# 4-ResElec 3</td>
</tr>
<tr>
<td>SPC 3301, Intpers Com 3</td>
<td>COM 4891* req# 4-ResElec 3</td>
</tr>
<tr>
<td>COM 4461* req# 4-ResElec 3</td>
<td>MAR 3022* req# 5-Ext RE 3</td>
</tr>
<tr>
<td>PUP 3255* req# 5-Ext RE 3</td>
<td>Elective* Check restrictions 3</td>
</tr>
<tr>
<td>Elective* Check restrictions 3</td>
<td>Elective* Check restrictions 3</td>
</tr>
</tbody>
</table>

**3. Common Core requirements**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select ENC 1101 &amp; ENC 1102 6 hrs</td>
<td>Select SPC 1016 or SPC 1016 3 hrs</td>
</tr>
<tr>
<td>COM 4200 Mass Communication Law 3 hrs</td>
<td>MMC 2004 Mass Media 3 hrs</td>
</tr>
<tr>
<td>JOU 4XXX Journalism Ethics 3 hrs</td>
<td>JOU 3004 History of American Journalism 3 hrs</td>
</tr>
<tr>
<td>JOU 4324C Converged Journalism 3 hrs</td>
<td>PGY 3610C Photojournalism I 3 hrs</td>
</tr>
</tbody>
</table>

**4. Specialization: Select one area**

**4.1 Newswriting**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOU 3200* Editing I 3 hrs</td>
<td>MMC 2004 Mass Media 3 hrs</td>
</tr>
<tr>
<td>JOU 3201* Editing II 3 hrs</td>
<td>JOU 3004 History of American Journalism 3 hrs</td>
</tr>
<tr>
<td>JOU 4221C Magazine Editing and Production 3 hrs</td>
<td>PGY 3610C Photojournalism I 3 hrs</td>
</tr>
</tbody>
</table>

**4.2 Visual Communication**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMC 2004 Mass Media 3 hrs</td>
<td>JOU 3004 History of American Journalism 3 hrs</td>
</tr>
<tr>
<td>PGY 3620C Photographic Journalism II 3 hrs</td>
<td>PGY 3630 Photojournalism III 3 hrs</td>
</tr>
<tr>
<td>CGS 2585C Desktop/Internet Publishing 3 hrs</td>
<td>JOU 3900 or JOU 4941 Internship 3 hrs</td>
</tr>
</tbody>
</table>

**5. School Exit Requirements**

- Acceptance of portfolio by faculty
- To avoid delaying graduation, you must request a review of
7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)
Select primarily from upper level courses, with school advisor's approval. Must be from outside of the school in order to not exceed the 40 credit hour cap. The majority of electives should be taken in the Liberal Arts to comply with the 65 hour Liberal Arts requirement.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, credit by exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hours

Related Programs: Technical Writing, Creative Writing, History, Literature, Linguistics, Magazine Journalism (not available to Journalism majors), Political Science, Sociology, Technical Writing, Writing

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

LEGAL STUDIES (B.A., B.S.)
College of Health and Public Affairs
HPA1 311, 407-823-2603
http://www.cohpa.ucf.edu/crim.jus/
Undergraduate Program Director and Pre-Law Advisor: David Slaughter
E-mail: dslaught@mail.ucf.edu

Admission Requirements
- none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a departmental advisor
- The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- 33 hours of PLA coursework must be taken at UCF
- 2.0 in all PLA work at UCF and overall GPA

1. UCF General Education Program (36 hrs)
- A. Communication Foundations 9 hrs
  1. ENC 1101 & ENC 1102
  2. Prefer SPC 1600
- B. Cultural Historical Foundations 9 hrs
  1. Historical Foundations
  2. Historical Foundations
- C. Mathematical Foundations 6 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites
- none

3. Core Requirements (21 hrs)
- PLA 3013 Law and the Legal System 3 hrs
- PLA 3104 Legal Research* 3 hrs
- PLA 3155 Legal Writing* 3 hrs
- PLA 3201 Civil Practice and Procedure 3 hrs
- PLA 3610 Property and Real Estate Law 3 hrs
- PLA 4700 Professional Ethics and Liability 3 hrs
- PLA 4935 Capstone: Legal Issues* 3 hrs

NOTE: Courses marked with asterisk (*) must be completed with a minimum grade of "C" (2.0) to satisfy the major.

4. Upper Division Restricted Electives (21 hrs)
21 additional hours of Legal Studies coursework selected in consultation with an advisor

5. Supporting Courses (9-15 hrs)
Students pursuing the B.A. degree must complete nine semester hours of supporting courses chosen with the approval of the student’s advisor. Students pursuing the B.S. degree must complete 15 hours of supporting courses chosen with the approval of the student’s advisor.

6. Specializations
Students may earn a specialization within the general program of study. The specializations do not substitute for the general legal studies degree requirements; they are earned within the general program by selecting particular courses to satisfy the legal studies restricted electives and supporting courses requirements. Students are not required to declare a specialization. The following specializations are offered:
- Law and Society
- Litigation and Advocacy
- Public Law
- Sports and Entertainment Law
- Criminal Law and Individual Liberties
- Estates and Property Law
- Comparative and International Law
- Commercial and Transactional Law

A student may earn a maximum of two specializations. Specific course requirements are available at the department office or from the student's advisor.

7. Departmental Exit Requirements (120 hrs)
Students must take a minimum of 33 hours of PLA courses at UCF. The total semester hours required is 120.

8. Electives (variable)
The following electives must be completed with a minimum grade of “C” (2.0): PLA 4020, PLA 4240, PLA 4910

9. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at college level.

10. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, credit by exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hours

Related Programs: Business Administration, Criminal Justice, History, Political Science, Public Administration, Sociology

Related Minors: Business Administration, Criminal Justice, Political Science, Public Administration, Sociology

Transfer Note: Courses taken at community colleges do not substitute for Upper Division courses.
Minor
The Legal Studies Minor consists of 21 or more semester hours.
Required courses: PLA 3013 plus a minimum of 15 semester hours of legal studies courses and three semester hours of law-related courses selected with the aid of an advisor.

Tentative Course Schedule for Entering Freshmen

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Spring</th>
<th>15/16 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman Year*</td>
<td>ENC 1101</td>
<td>ENC 1102</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 PSY 2012 or SYG 2000</td>
<td>3 COS 1060C</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 MGF 1106</td>
<td>3 ECO 2013 or POS 2041</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 BSC 1005 or MCB 1310</td>
<td>For. Lang. I or B.S. option</td>
<td>3/4</td>
</tr>
<tr>
<td></td>
<td>2 PAF 2102</td>
<td>2 Elective</td>
<td>3</td>
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Sophomore Year

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Spring</th>
<th>15 hrs</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>AN 2511 or GLY 1030</td>
<td>PSC 1221 or CHM 1020</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or GEO 1200</td>
<td>PLA 3013</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SPC 1600</td>
<td>One Course: ARH 2050</td>
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</tr>
<tr>
<td></td>
<td>EUH 2000 or HUM 2210</td>
<td>ARH 2051, MUL 2010, THE</td>
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<tr>
<td></td>
<td>or AMH 2010</td>
<td>1020, REL 2300, PHI 2010,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>For. Lang. II or B.S. option</td>
<td>LIT 2310, LIT 2120</td>
<td></td>
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<tr>
<td></td>
<td>3/4</td>
<td>3 Elective</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>EUH 2001 or HUM 2230</td>
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<tr>
<td></td>
<td></td>
<td>or AMH 2020</td>
<td>3</td>
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Junior Year

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Spring</th>
<th>15 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PLA 3104</td>
<td>PLA 3155</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 PLA 3201</td>
<td>3 PLA 3610</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PLA Elective</td>
<td>3 PLA Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Supporting Elective</td>
<td>3 Supporting Elective</td>
<td>3</td>
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</tbody>
</table>

Senior Year

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Spring</th>
<th>15 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PLA 4700</td>
<td>PLA 4935</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Internship or PLA Elective</td>
<td>Internship or PLA Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Supporting Elective</td>
<td>3 Supporting Elective</td>
<td>3</td>
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<tr>
<td></td>
<td>Elective/ minor</td>
<td>Elective/ minor</td>
<td>3</td>
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<tr>
<td></td>
<td>Elective/ minor</td>
<td>Elective/ minor</td>
<td>3</td>
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</tbody>
</table>

LIBERAL STUDIES (B.A., B.S.)
Office of Undergraduate Studies
Office of Liberal and Interdisciplinary Studies
CL-I, Room 302; http://liberalstudies.info
E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144
Liberal Studies is a university-wide program leading to either the Bachelor of Arts or the Bachelor of Science in Liberal Studies, depending on the majority of course areas selected in consultation with a Liberal Studies advisor.

The program is administered through the Office of Liberal Studies in the Office of Undergraduate Studies and is designed for academic flexibility. It recognizes that there are many combinations of courses which meet the needs of individual students.

This program may be completed online with limited area, course, and minor selection done with advisement from a member of the Liberal Studies Advising Team. Students may not be able to complete all courses online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via online courses. For more information, see http://online.ucf.edu.

Admission Requirements

- Degree Requirements
  - Students who change degree programs and select this major must adopt the most current catalog
  - Students must have declared a Liberal Studies major at least one semester before graduation
  - Co-op credit cannot be used in this major
  - Independent study forms must be approved by the director prior to taking an independent study or internship for use in the Liberal Studies areas. Non-approved independent studies or internships will not be counted towards the major
  - Students must earn at least a “C” (2.0) in each restricted elective course
  - Students must consult with a Liberal Studies advisor to enter the program
  - Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
  - No courses can count in more than one subject area or in a subject area and a minor

1. UCF General Education Program (36 hrs)
   - Communication Foundations 9 hrs
   - Cultural and Historical Foundations 9 hrs
   - Mathematical Foundations 6 hrs
   - Select MGF 1106 Finite Mathematics (may substitute a higher level math)
   - Select STA 1060C Statistics Using Excel or STA 2014C Principles of Statistics (may substitute a higher level computer science or statistics course)
   - Social Foundations 6 hrs
   - Science Foundations 6 hrs
   - Liberal Studies Advising Team for details regarding each area:
     - Arts
     - Behavioral and Social Sciences
     - Commerce
     - Communication
     - Computer Science
     - Education
     - Engineering
     - Health and Biomedical Sciences
     - Humanities
     - Letters and Modern Languages
     - Natural Sciences

2. Restricted Electives (36 hrs)
   - Students must complete two different subject area concentrations from among those specified below
   - Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses). Courses are considered approved only when they have been reviewed by a Liberal Studies advisor and not simply when they appear on a student audit.
   - Students are required to take a minimum of 18 UCF hours, as well as 18 upper division hours, in the two areas combined
   - See the Liberal Studies Advising Team for details regarding each area:
     - Arts
     - Behavioral and Social Sciences
     - Commerce
     - Communication
     - Computer Science
     - Education
     - Engineering
     - Health and Biomedical Sciences
     - Humanities
     - Letters and Modern Languages
     - Natural Sciences
     - Public Affairs

4. Required Minor (18 hrs minimum)
   - Students must complete a minor from those offered at UCF. The minor cannot overlap with the two subject areas. Minimum hours for a minor is eighteen. The minor degree audit must be approved by, and completion of the minor certified by, the department offering the minor.

5. Program Exit Requirements
   - A grade of “C” or above (2.0) is required for each course taken in each of the subject areas.
   - Computer Competency met by CGS 1060C, STA 1060C, or other computer-related courses, or departmental assessment.

6. Foreign Language Requirements (0-8 hrs)
   - Admission-BA: Met by graduation requirement
   - Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation

Graduation - BA: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies.
Standardized examinations for foreign languages may be used to meet the requirement.

Graduation - BS: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the require-
Students who change degree programs and select this major must do so in order to graduate.

7. Electives (variable)
Select primarily from upper level courses, with Liberal Studies advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required
120 hrs

Related Programs: Computer Information Technology Track, Liberal Arts Track, Environmental Studies Track, Women's Studies Track

Related Minors: Most UCF minors

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

LIBERAL STUDIES - COMPUTER INFORMATION TECHNOLOGY TRACK (B.S.)

Office of Undergraduate Studies
Office of Liberal and Interdisciplinary Studies
CL-I, Room 302; http://liberalstudies.info
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

College of Engineering and Computer Science
School of Electrical Engineering and Computer Science, CSB 201
E-mail: computerscience@ucf.edu
Mark Llewellyn, 407-823-2341

There are numerous opportunities in industry for qualified people to work in the broad area of Information Technology (IT). Computer Science represents only a part of this IT umbrella. Students can go beyond a narrower technical focus to include system, network, and database administration; business principles and behavior; social science behavior and theories; and other areas.

This LS-CIT track fills the gap between the fully accredited degree program in Computer Science which emphasizes the scientific aspects of computing, and the needs of the IT industry for people with skills in broader areas of information technology. By completing this track within Liberal Studies, students can accentuate those areas of computer information and application, while de-emphasizing the mathematical and physical science components of Computer Science.

The program is administered through the Office of Liberal and Interdisciplinary Studies in the Office of Undergraduate Studies and is designed for academic flexibility. It recognizes that many combinations of courses meet the needs of individual students.

Admission Requirements
- None

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Co-op or internship credit cannot be used in this major

Students must earn at least a "C" (2.0) in each restricted elective and minor course

Students should consult with departmental advisors within both the Liberal Studies program and Computer Science when entering the program

Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree

1. UCF General Education Program
   (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations 6 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites
   none

3. Required Computer Science Minors
   (36 hrs)
   - Students must complete the Computer Science minor and the Information Technology minor (Option 3). See the requirements for these two minors in the catalog minor degree section.

4. Restricted Electives
   (18 hrs)
   - Students must complete a minimum of 18 hours of approved courses in one Liberal Studies subject area from those listed below (excluding GEP courses) of which a minimum of nine hours must be UCF hours and a minimum of nine upper level hours
   - Students are strongly encouraged to take all upper level courses in the area
   - See the Liberal Studies Advising Team for details regarding each area

   Arts
   Behavioral and Social Sciences
   Commerce
   Communication
   Education
   Engineering
   Health and Biomedical Sciences
   Humanities
   Letters and Modern Languages
   Natural Sciences
   Public Affairs

5. Program Exit Requirements
   - A grade of "C" or above (2.0) is required for each course taken in the subject areas and the minors
   - Computer Competency is met by CIT major.

6. Foreign Language Requirements
   (0-8 hrs)
   Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
   Graduation-BS: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Judaic Studies or Modern Languages and Literatures, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.
   Note: Students entering without having met the admission requirement must do so in order to graduate

7. Electives (variable)
Select primarily from upper level courses, with Liberal Studies advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Computer Science, Liberal Arts Track, Environmental Studies
Track, Women's Studies Track, Digital Media

Related Minors: None

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

LIBERAL STUDIES – ENVIRONMENTAL STUDIES TRACK (B.S.)

Office of Undergraduate Studies
Office of Liberal and Interdisciplinary Studies
CL-I, Room 302; http://liberalstudies.info
E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

Admission Requirements none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Internship credit cannot be used in this major without prior written permission of a Liberal Studies advisor
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies area.
- Non-approved independent studies will not be counted towards the major
- Co op credit cannot be used in this major
- Students must earn at least a “C” (2.0) in each required course in the core and subject areas
- Students should consult with a Liberal Studies advisor when entering the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree

1. UCF General Education Program (36 + 2 hrs)
   - A. Communication Foundations
     - Select STA 2023
   - B. Cultural and Historical Foundations
     - Select STA 2023
   - C. Mathematical Foundations
     - Select MAC 1105 or higher
   - D. Social Foundations
     - Select ECO 2013 or ECO 2023
   - Select SYG 2000
   - E. Science Foundations
     - Select BSC 2010C
     - Select CHM 2045C

2. Core Prerequisites none

3. Core for Environmental Studies (11 hrs)
   - A. Physical/Mathematical Sciences
     - CHM 2045C Chemistry Fundamentals I GEP
     - MAC 1105 College Algebra or higher GEP
     - PSC 1121 Physical Science I 3 hrs
     - STA 2023 Statistical Methods I GEP
   - B. Life Sciences
     - Select BSC 2010C
     - Select BSC 2011C
     - Select PCB 3044/3044L Principles of Ecology & Lab
   - C. Social Science & Humanities
     - ECO 2013 Principles of Macroeconomics

4. Subject Area: Environmental Studies Fundamentals (19 hrs)
   - PCB 3044 /3044L Principles of Ecology & Lab 4 hrs
   - PCB 3090C Principles of Evolutionary Ecology 4 hrs
   - PCB 3304C River Ecology 3 hrs
   - PCB 3442 Florida Aquatic Ecology 3 hrs
   - PCB 4683 Conservation and Management of Native Plants 3 hrs
   - PCB 4302C Physiochemical Limnology 3 hrs
   - PCB 4303C Biological Limnology 3 hrs
   - PCB 4683 Population Biology & Evolution 3 hrs
   - PCB 4723 Animal Physiology 3 hrs
   - PCB 5045 Conservation Zoology 3 hrs
   - PCB 5326E Ecosystems of Florida 3 hrs

Values, Planning, & Policy Concentration
Note: This subject area is available only to Liberal Studies - Environmental Studies track majors.

5. Subject Areas: Restricted Electives (18 hrs)
   - Select 18 hours in one concentration

6. Program Exit Requirements (0-8 hrs)
   - A grade of “C” or above (2.0) is required for each course taken in the subject areas and core
   - Computer Competency is met by completing this major

7. Foreign Language Requirements (0-8 hrs)
   - Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation
   - Graduation-BS: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Judaic Studies or Modern Languages and Literatures, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.

UCF Degree Programs
8. Electives (variable)
Select primarily from upper level courses, with advisor approval.

9. University Minimum Exit Requirements
- A 2.0 UCF and overall GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Required Hours 120 hours

Related Programs: Biology, Chemistry, Environmental Engineering, Political Science, Economics

Related Minors: All minors

Transfer Notes
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

LIBERAL STUDIES - LIBERAL ARTS TRACK (B.A.)
Office of Undergraduate Studies
Office of Liberal and Interdisciplinary Studies
CL-I, Room 302; http://liberalstudies.info
E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team. 407-823-0144

The Liberal Arts Track is a Bachelor of Arts degree program available to advanced students seeking an individualized, interdisciplinary, non-traditional major. The degree program is administered by the Office of Liberal and Interdisciplinary Studies within the Office of Undergraduate Studies.

Admission Requirements  
- None

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each restricted elective course.
- Co-op or internship credit cannot be used in this major.
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted toward the major.
- Students must consult with a Liberal Studies advisor before entering the program.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.
- No courses can count in more than one subject area or in a subject area and a minor.
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree.

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
Select MGF 1106 Finite Mathematics  
(may substitute a higher level math)
Select CJS 1060C Intro to Computer Sci or STA 2014C Principles of Statistics or STA 1060C Statistics Using Excel  
(may substitute a higher level computer science or statistics course)
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites None

3. Core Requirements (6 hrs)
- One course determined between the student and Liberal Studies advisors from among courses in ethics, critical thinking, or methodologies

4. Restricted Electives (36 hrs)
Select one (either A or B)
- a. Complete a minor from those offered at UCF 18 hrs
- b. Complete an individualized minor approved by the Liberal Studies advisors 18 hrs

Select one (either C or D):
- c. Complete a second minor from those offered at UCF in the College of Arts and Humanities or College of Sciences 18 hrs
- d. Complete nine hours in each of two concentrations below: 18 hrs
  1. Visual and Performing Arts
  2. Natural and Computational Sciences
  3. Humanities, Letters and Modern Languages
  4. Behavioral, Social Sciences, Communication

5. Program Exit Requirements (3 hrs)
Select one of these options, any of which must be approved by the Liberal Studies advisors:
- IDS 4912 Directed Independent Research
- IDS 4955 Study Abroad
- IDS 4970 Undergraduate Thesis

- Students must take a minimum of 18 hours of approved restricted elective courses. Courses are considered approved only when they have been reviewed by a Liberal Studies advisor and not simply when they appear on a student audit.
- Students are required to take a minimum of 18 UCF hours, as well as 18 Upper Division hours, in the restricted elective courses.
- Maintain a minimum GPA of 3.0 in all Liberal Arts Track courses.

6. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement.

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives (variable)
Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Liberal Studies Track, CIT Track, Environmental Studies Track, Women's Studies Track

Related Minors: All College of Arts and Sciences minors

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

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3. Restrictive Electives (36 hrs)

Students must complete both subject area concentrations from among those specified below.

- Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses).
- Students are required to take a minimum of 18 UCF hours, as well as 18 upper division hours, in the two areas combined.
- See the Liberal Studies Advising Team for details regarding each independent study.

4. Required Minor (18 hrs min)

- Students must take a minimum of 18 hours of approved courses towards the major.
- Students must have declared a Liberal Studies major at least one semester before graduation.
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas.

5. Departmental Exit Requirements

- A grade of “C” or above (2.0) is required for each course taken in each of the subject areas.
- Computer Competency met by completion of track area and minor requirements.

6. Foreign Language Requirement (0-8 hrs)

- Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
- Graduation-BS: One semester college language or equivalent proficiency exam, or one course with a multicultural dimension.

7. Electives (variable)

- Select primarily from upper level courses, with a Liberal Studies advisor's approval.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Computer Information Technology Track, Environmental Studies Track
UCF Degree Programs

Environmental Studies, Health Science, Mathematics, Molecular Biology and Microbiology (Health and Biomedical Sciences), Physics, Psychology, Space Studies, Statistics

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

LIBERAL STUDIES - WOMEN'S STUDIES TRACK (B.A.)
Office of Undergraduate Studies
Office of Liberal and Interdisciplinary Studies
CL-I, Room 302; http://liberalstudies.info
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

Women's Studies Program
Colbourn Hall 201
http://www.cas.ucf.edu/womensstudies
E-mail: womenst@pegasus.cc.ucf.edu
Lisa Logan, 407-823-6502

Liberal Studies - Women's Studies track is a broadly based interdisciplinary curriculum which leads to the Bachelor of Arts degree in Liberal Studies. The program is administered through the Office of Liberal and Interdisciplinary Studies in the Office of Undergraduate Studies and the Women's Studies Program in the College of Arts and Humanities.

Admission Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have declared a Liberal Studies major - Women's Studies track at least one semester before graduation.
- Internship credit cannot be used in this track without prior permission.
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies program.
- Non-approved independent studies will not be counted towards the major.
- Co-op credit cannot be used in this track.
- Students must earn at least a "C" (2.0) in each restricted elective course.
- Students should consult with a Liberal Studies advisor when determining the degree program and regularly thereafter.
- Courses designated in 1. (General Education Program) and 2. (Common Program Prerequisites) are usually completed in the first 60 hours.
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree.

1. UCF General Education Program  (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations 6 hrs
      Select MGF 1106 Finite Mathematics (may substitute a higher level math) 6 hrs
      Select STA 1060C Statistics Using Excel or STA 2014C Principles of Statistics (may substitute a computer science or higher level statistics course) 6 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites  none

3. Restricted Electives  (36 hrs)
   - Students must complete either the Womanist/Women of Color subject area or the Women's Studies Cognate subject area

4. Required Minor  (18 hrs)
   Students must complete the Women's Studies minor

5. Program Exit Requirements
   - A grade of "C" or above (2.0) is required for each course taken in each of the subject areas

First Study Area (or select Women's Studies Cognate Area)
Womanist/Women of Color Area:  (18 hrs)
WST 3460 Womanist Studies 3 hrs
Select 15 hours from the following courses:
   AML 3614 Topics in African-American Literature 3 hrs
   ANT 4308 Gender Issues in Latin America 3 hrs
   ASH 4304 Women in China 3 hrs
   AML 3682 Ethnic Literature in America 3 hrs
   SYD 3751 North American Indian Women Today 3 hrs

Second Study Area (or select Womanist/Women of Color Area)  (18 hrs)
Women's Studies Cognate Area:
Select 18 hours from the following courses:
   AML 3614 Topics in African-American Literature 6 hrs
   AML 3682 Ethnic Literature in America 6 hrs
   AML 4261 Literature of the South 6 hrs
   CCJ 4463 Cultural Diversity in Criminal Justice 6 hrs
   CCJ 4681 Domestic Violence and the Justice System 6 hrs
   EUH 3242 Modern Europe and the First World War 6 hrs
   EUH 5937* Social Theory/History* 6 hrs
   HSC 3593 CHIV Disease: A Human Concern 6 hrs
   LIT 5556 Feminist Theory* 6 hrs
   LIN 4643 Cross Cultural Communication 6 hrs
   PEM 2405 Self-Defense for Women and Men 6 hrs
   PHI 3640 Environmental Ethics 6 hrs
   PHI 3670 Ethical Theory 6 hrs
   PHI 4300 Theories of Knowledge 6 hrs
   PUP 3314 Minorities in Politics 6 hrs
   SOP 2772 Sexual Behavior 6 hrs
   SOP 3784 Psychology of Diversity 6 hrs
   SYD 5700 Race and Ethnic Minorities in the U.S. 6 hrs
   SYO 4100 Family Trends 6 hrs
   SYO 4200 Sociology of Religion 6 hrs
   SYP 3630 Sociology of Popular Culture 6 hrs
   SYP 3650 Sociology and Sport 6 hrs
   SYP 4734 Minority Aging 6 hrs
   THE 3200 Cultural Diversity Through Theater 6 hrs

Other courses may be utilized for this area with the permission of the director.
*Undergraduate students will need professor's permission to register for graduate-level courses.

Relevant Special Topics courses are periodically offered through various departments; with prior approval from the Women's Studies Director, some courses may substitute.

2nd Study Area (from those below)  See the Liberal Studies Advising Teams for details regarding each area:
- Arts
- Behavioral and Social Sciences
- Commerce
- Communication
- Computer Science
- Education
- Engineering
- Health and Biomedical Sciences
- Humanities
- Letters and Modern Languages
- Natural Sciences
- Public Affairs

4. Required Minor  (18 hrs)
   Students must complete the Women's Studies minor

5. Program Exit Requirements
   - A grade of "C" or above (2.0) is required for each course taken in each of the subject areas
6. Foreign Language Requirements
(0-8 hrs)
Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.
Note: Students entering without having met the admission requirement must do so in order to graduate

7. Electives (variable)
Select primarily from upper level courses, with Liberal Studies advisor's approval. May be outside of Women's Studies.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Liberal Studies - Liberal Studies track; Liberal Studies - Liberal Arts track
Related Minors: Anthropology in Multicultural Studies
Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

LIBERAL STUDIES ACCELERATED PROGRAM
(B.A./B.S. and M.A./M.S.)

Accelerated Undergraduate/Graduate Program
Note: For detailed information about this program, see description in the "Accelerated Undergraduate/Graduate Programs" section of this Undergraduate Catalog.

MANAGEMENT (B.S.B.A.)
College of Business Administration
B92 101, 407-823-2184
http://www.bus.ucf.edu

1. Admission Requirements
- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements
1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      Required: SPC 1600
   B. Cultural and Historical Foundations
      Select: MAC 1105 College Algebra
      Select: CGS 2100CC Computer Fundamentals for Bus
   C. Mathematical Foundations
      Select: ECS 2030 Microeconomics
      Select: ECO 2103 Microeconomics
   D. Social Foundations
      E. Science Foundation
      Required: ACG 2021 Principles of Financial Accounting
      Required: ACG 2071 Principles of Managerial Accounting

2. Common Program Prerequisites
   Must be completed with a "C" (2.0) or better.

UCF Degree Programs
6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or
one year of one foreign language in college (or equivalent proficien-
cy exam) prior to graduation.
Graduation: none

7. University Minimum Exit Requirements
   ■ A 2.0 UCF GPA
   ■ 60 semester hours earned after any CLEP award
   ■ 48 semester hours of upper division credit completed
   ■ 30 of the last 36 hours of course work must be completed in res-
   idency at UCF
   ■ A maximum of 45 hours of extension, correspondence, CLEP,
     Credit by Exam, and Armed Forces credits permitted
   ■ Completion of the General Education Program, the Gordon Rule,
     the CLAST, and nine semester hours of Summer credit (if appli-
cable)

8. Electives*** (variable)
Total Semester Hours Required 120 hrs

Community/Junior College Transfer Notes
   ■ Common Program Prerequisites for the State University System
   for College of Business Administration programs include
     Financial Accounting, Managerial Accounting, Microeconomics,
     Microeconomics, Calculus, Statistics, and a relevant computer
     class. At UCF Business, students who have completed the cal-
     culus and statistics class will be waived from Quantitative
     Business Tools I. Students who have completed either the calcu-
     lus or the statistics, but not both, must take Quantitative
     Business Tools I.
   ■ Subject to the general grade and residence requirements, credit
     will be granted for transferred course work equivalent to that
     required in the UCF Business program. Only grades of “C” (2.0)
     or higher transfer into the program and students must have a
     “C”(2.0) or better in each common program prerequisites class.
   ■ ACG X001 and X011 will substitute for ACG 2021 at UCF
   ■ Florida Public Community College students are advised to com-
     plete the Associate of Arts degree, to include the general educa-
     tion requirements, the common program prerequisites for the
     SUS system, and college algebra.
   ■ 3000 & 4000 level courses should not be taken at a
     community/junior college in the areas of Management,
     Marketing, Real Estate, or Finance. These are third and fourth
     year (junior, senior) course areas and cannot be satisfied with
     freshman, sophomore level courses.
   ■ Any student receiving a business degree must complete one half
     (30) of the 60 upper level business courses for their degree pro-
     gram in the UCF College of Business Administration. Additionally,
     12 of the 30 credit hours completed at UCF must be from the
     department or school in which the student majors.
   ■ Orientation and advising are two of the most valuable tools that
     a student can make use of when transferring to UCF. Be sure
     that you take advantage of both.

FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT MAJORS
Freshman
1st Term 15 hrs 2nd Term 15 hrs 1st Term 15 hrs 2nd Term 15 hrs
ENC 1101* 3 ENC 1102* 3 GEB 3031 6 GEB 3036 3
Cult-Hist I* 3 Cult-Hist II* 3 GEB 3356 3 MAN 3025 3
**Elective 3 MAC 1105* 3 MAN 4240 3 MAN 4240 3
***Elective 3 GEB 3356 3 MAN 4320 3 MAN 4320 3
Must complete nine hours in a summer semester

Sophomore
1st Term 15 hrs 2nd Term 15 hrs 1st Term 15 hrs 2nd Term 15 hrs
ECO 2023* 3 ECO 2021* 3 GEB 4111/3470 3 GEB 3031 6
ACC 2021* 3 ACC 2021* 3 MAN 4240 3 MAN 4240 3
Science 3 Science 3**MAN Elective 3 MAN 4240 3
Psy/Soc/Art 3 ***Elective 3 GEB 4111/3470 3
**Elective 3 ECO 3401* 3
***Elective 3 **Elective 3
** “C” (2.0) or better grade required in each class

areas of study below

GENERAL MANAGEMENT TRACK
Junior
1st Term 15 hrs 2nd Term 15 hrs
GEB 3031 6 ISM 3011 3
BUL 3130 3 MAR 3023 3
ISM 3520 3 ECO 3411 3
MAN 3025 3 FIN 3403 3
**MAN Elective 3

Senior
1st Term 15 hrs 2nd Term 15 hrs
GEB 3356 3 MAN 4720 3
MAN 4240 3 MAN 4600 3
MAN 4701 3 MAN 4101 3
**MAN Elective 3 **MAN Elective 3
***Elective 3 ***Elective 3
**Students select three electives from among MAN courses and BUL 4540.
***General electives as required to reach 120 semester hours.

HUMAN RESOURCE MANAGEMENT TRACK
Junior
1st Term 15 hrs 2nd Term 15 hrs
GEB 3031 6 BUL 3130 3
GEB 3356 3 MAN 3025 3
MAR 3023 3 ECO 3411 3
MAN 3025 3 FIN 3403 3
ISM 3011 3

Senior
1st Term 15 hrs 2nd Term 15 hrs
MAN 4350 3 MAN 4720 3
MAN 4240 3 MAN 4330 3
MAN 4320 3 **MAN Elective 3
**MAN Elective 3 **MAN Elective 3
**Elective 3 **Elective 3
**Students select three electives from among MAN courses and BUL 4540.
***General electives as required to reach 120 semester hours.

ENTREPRENEURSHIP TRACK
Junior
1st Term 15 hrs 2nd Term 15 hrs
GEB 3031 6 MAN 4802 3
GEB 3356 3 ECO 3411 3
MAR 3023 3 BUL 3130 3
MAN 3025 3 FIN 3403 3
ISM 3011 3

Senior
1st Term 15 hrs 2nd Term 15 hrs
GEB 4411/3470 3 MAN 4720 3
MAR 3461/3880 3 GEB 4117 3
MAN 3021 3 **MAN Elective 3
**MAN Elective 3 **MAN Elective 3
**Elective 3 **Elective 3
**Student select three electives from among MAN courses and BUL 4540.
***General electives as required to reach 120 semester hours.

MANAGEMENT INFORMATION SYSTEMS (B.S.B.A.)
College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu

Admission Requirements
   ■ Completion of the UCF General Education program or an AA
     degree from a Florida Public Community College
   ■ See Common Program Prerequisites

Degree Requirements
1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
      Prefer SPC 1600
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 1105 College Algebra
      Select CGS 2100C Computer Fundamentals for Bus
   D. Social Foundations
      Select ECO 2013 Macroeconomics or
      ECO 2023 Microeconomics
      Select one: PSY 3012, SYG 3000, ANT 2000
   E. Science Foundation 6 hrs
2. Common Program Prerequisites

MANAGEMENT INFORMATION SYSTEMS (B.S.B.A.)
Must be completed with a 2.5 or better.

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

* At UCF, students who have completed MAC 2233 and STA 2203 will be waived from ECO 3401. Students who have not completed both classes with a “C” (2.0) or better must take ECO 3401.

3. Required for All Business Majors (30 hrs)

First or subsequent semester in the College of Business Administration:

- GEB 3031 Cornerstone (Required in 1st or 2nd semester) 6 hrs
- GEB 3356 Introduction to International Business 3 hrs
- BUL 3131 Legal & Ethical Environments of Business 3 hrs
- ECO 3411 Quantitative Business Tools II 3 hrs
- FIN 3403 Business Finance 3 hrs
- MAN 3025 Management of Organizations 3 hrs
- MAR 3023 Marketing 3 hrs
- ISM 3011 Essentials of Management Info Systems 3 hrs

Last Semester:
- MAN 4720 Strategic Management 3 hrs

4. Special college and/or department requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Students desiring to major in Management Information Systems must apply for admission to the major and have at least a 2.5 GPA in Common Program Prerequisites.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- All courses required for the major (including electives) must be completed with a grade of “C” (2.0) or better in each common program prerequisite class.

5. Required Courses (22 hrs)

- ISM 3253 MIS Techniques 4 hrs
- ISM 4113 Information Systems Analysis & Design 3 hrs
- ISM 4131 Information Systems Implementation 3 hrs
- ISM 4212C Database Management Systems 3 hrs
- ISM 4220 Distributed Information Systems 3 hrs
- ISM 4300 Information Technology Management 3 hrs
- ISM 4401 Decision Support Systems 3 hrs

Plus two of the following: (6 hrs)

- Any 3000 or 4000 level ISM prefix course.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

8. Electives*** (variable)

Total Semester Hours Required 120 hours

Community/Junior College Transfer Notes

- Common Program Prerequisites for the State University System of College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of “C” (2.0) or higher transfer into the program and students must have a “C”(2.0) or better in each common program prerequisites class.

- ACG X001 and X011 will substitute for ACG 2021 at UCF.

- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.

- Professional courses should not be taken at a community/junior college. This includes the areas of MIS, Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.

- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.

- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT INFORMATION SYSTEMS MAJORS

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<td>Must complete nine hours in a summer semester</td>
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<tr>
<td>***Elective</td>
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<td>ECO 3401*</td>
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<td>* “C” (2.0) or better grade required in each class</td>
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<table>
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<th>2nd Term</th>
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<td>ISM 3011</td>
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<td>ISM 4401</td>
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<td>GEB 3356</td>
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<tr>
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<td>MAN 4720</td>
<td>3</td>
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<tr>
<td>FIN 3403</td>
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<td>ISM 4300</td>
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<td>***Elective</td>
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<td>ISM 4131</td>
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<td>ISM Elective</td>
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<td>BUL 3130</td>
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<td>**General electives as required to reach 120 semester hours.</td>
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</table>
MARKETING (B.S.B.A.)
College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu

Admission Requirements
■ Completion of the UCF General Education program or an AA degree from a Florida Public Community College
■ See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      Required: SPC 1600
      9 hrs
   B. Cultural and Historical Foundations
      9 hrs
   C. Mathematical Foundations
      Select MAC 1105 College Algebra
      Select MAC 1140 College Algebra
      3 hrs
      Select CGS 2100CC Computer Fundamentals for Business
      3 hrs
   D. Social Foundations
      Select ECO 2013 Macroeconomics or
      ECO 2023 Microeconomics
      3 hrs
      Select one: PSY 2012, SYG 2000, ANT 2000
      3 hrs
   E. Science Foundation
      6 hrs

2. Common Program Prerequisites
   Must be completed with a "C" (2.0) or better.
   ACG 2021 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   ECO 2013 Macroeconomics
   ECO 2023 Microeconomics
   *ECO 3401 Quantitative Business Tools I
   CGS 2100CC Computer Fundamentals for Business
   * At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO3401. Students who have completed both classes with a "C" (2.0) or better must take ECO3401.

3. Required for All Business Majors (30 hrs)
   First or subsequent semester in the College of Business Administration:
   GEB 3031 Cornerstone (Required in 1st or 2nd semester)
   GEB 3156 Introduction to International Business
   BUL 3130 Legal & Ethical Environments of Business
   ECO 3411 Quantitative Business Tools II
   FIN 3403 Business Finance
   MAN 3025 Management of Organizations
   ISM 3011 Essentials of Management Information Systems
   MAR 3223 Marketing
   Last Semester:
   MAN 4720 Strategic Management
   3 hrs

4. Special college and/or department requirements:
   ■ Students who change degree programs and select this major must adopt the most current catalog.
   ■ Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
   ■ Students wanting to major in Marketing must apply for admission to the major.
   ■ Final exams will be given during Exam Week.
   ■ Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.
   ■ Students majoring in Marketing must earn a grade of "C" (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major. MAR 3023 is included in this requirement.
   ■ Students must earn at least a 2.0 GPA in the major and CBA.

5. Required Courses (18 hrs)
   MAR 3391 Professional Selling
   MAR 3503 Customer Behavior
   MAR 3613 Marketing Analysis and Research
   MAR 3641 Marketing Intelligence
   MAR 4803 Marketing Management
   MAR 4804 Marketing Strategy
   MAR 4941 Marketing Internship
   3 hrs

6. Restricted Electives – General Marketing (9 hrs)
   Minimum of 3 courses required
   MAR 3323 Integrated Marketing Communication
   3 hrs

7. Required Electives - Sales Track* (9 hrs)
   MAR 3403 Sales Force Management
   MAR 3880 E-Marketing
   *MAR 4156 International Marketing
   MAR 4231 Retailing Management
   MAR 4711 Sport Marketing
   MAR 4712 Healthcare Marketing
   MAR 4715 Entertainment Marketing
   *MAR 4724 Strategic Foundations in Global E-Business
   MAR 4841 Services Marketing
   MAR 4941 Marketing Internship
   3 hrs
   * Either MAR 4156 or MAR 4724 (not both) may be taken as an elective.

8. Foreign Language Requirements (0-8 hrs)
   ■ A 2.0 UCF GPA
   ■ 60 semester hours earned after any CLEP award
   ■ 48 semester hours of upper division credit completed
   ■ 30 of the last 36 hours of course work must be completed in residence at UCF
   ■ A maximum of 45 hours of extension correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   ■ Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

9. University Minimum Exit Requirements
   ■ A 2.0 UCF GPA
   ■ Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

10. Electives*** (variable)

Total Semester Hours Required 120 hrs
Majors who meet departmental criteria are also eligible to apply for a marketing internship (MAR 4941) and/or take the small business consulting class (MAR 5941). MAR 5941 cannot count as one of the three restricted electives required of marketing majors. For additional information about the department, curriculum, faculty, events, and careers in marketing, students are invited to visit our department home page at: http://www.bus.ucf.edu/mar/.

Community/Junior College Transfer Notes
■ Common Program Prerequisites for the State University System for College of Business Administration programs include: Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
■ Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
■ ACG X001 and X011 will substitute for ACG 2021 at UCF.
■ Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
■ Professional courses should not be taken at a community/junior
college in the areas of Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.

- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY – GENERAL MARKETING

Freshman

1st Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENC 1101*</td>
<td>3</td>
</tr>
<tr>
<td>Cull-Hist I*</td>
<td>3</td>
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<tr>
<td>SPC 1600</td>
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<tr>
<td>***Elective</td>
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<td>***Elective</td>
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2nd Term

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>ENC 1102*</td>
<td>3</td>
</tr>
<tr>
<td>Cull-Hist II*</td>
<td>3</td>
</tr>
<tr>
<td>Art/MusicLit</td>
<td>3</td>
</tr>
<tr>
<td>MAC 1105*</td>
<td>3</td>
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<td>CGS 2100CC</td>
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Must complete nine hours in a summer semester.

Sophomore

1st Term

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ECO 2023*</td>
<td>3</td>
</tr>
<tr>
<td>AGS 2021*</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>3</td>
</tr>
<tr>
<td>Psy/Soc/Ant</td>
<td>3</td>
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<tr>
<td>***Elective</td>
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<tr>
<td>***Elective</td>
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2nd Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Hours</th>
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</thead>
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<tr>
<td>ECO 2013*</td>
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<td>AGS 2071*</td>
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</tr>
<tr>
<td>Science</td>
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Junior

1st Term

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<th>Course Code</th>
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<tr>
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<tr>
<td>MAR 3391</td>
<td>3</td>
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<tr>
<td>GEB 3031</td>
<td>6</td>
</tr>
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<td>GEB 3356</td>
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<td>MAR 3013</td>
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Must complete nine hours in a summer semester.

Senior

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<tbody>
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<td>MAC 3503</td>
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<td>FIN 3403</td>
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<td>MAR 3391</td>
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General electives as required to reach 120 semester hours.

FOUR YEAR PLAN OF STUDY – MARKETING: SALES TRACK

Freshman

1st Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Hours</th>
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<tr>
<td>ENC 1101*</td>
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<td>Cull-Hist I*</td>
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<tr>
<td>SPC 1600</td>
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2nd Term

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<th>Course Code</th>
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<tbody>
<tr>
<td>ENC 1102*</td>
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<tr>
<td>Cull-Hist II*</td>
<td>3</td>
</tr>
<tr>
<td>Art/MusicLit</td>
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<td>MAC 1105*</td>
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<tr>
<td>CGS 2100CC</td>
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Must complete nine hours in a summer semester.

Sophomore

1st Term

<table>
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<td>Science</td>
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2nd Term

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<td>AGS 2071*</td>
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<td>Science</td>
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Junior

1st Term

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<td>MAR 3391</td>
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<td>GEB 3031</td>
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<td>GEB 3356</td>
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Must complete nine hours in a summer semester.

Senior

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<td>MAN 3025</td>
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<td>ISM 3011</td>
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<td>MAR 3641</td>
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General electives as required to reach 120 semester hours.

MATHEMATICS-APPLIED TRACK (B.S.)

College of Sciences, Department of Mathematics, MAP 207, 407-823-6284
http://math.ucf.edu

Contact: H. Martin, MAP 231F, 407-823-5700, E-mail: martin@math.ucf.edu

The Department of Mathematics offers special courses for students in the Honors Program. These courses are with an H such as MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, MAC 2312, MAC 2313, and MAP 2302 must either be taken from, or approved by the Department of Mathematics at UCF
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Math Department
- Co-op or internship credit cannot be used in this major
- Students must earn at least a “C” (2.0) in each required course
- Students should consult with a departmental advisor
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36+3 hrs)

(Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)

A. Communication Foundations: 9 hrs
B. Cultural and Historical Foundations: 9 hrs
C. Mathematical Foundations: 9 hrs

2. Common Program Prerequisites (11 hrs)

<table>
<thead>
<tr>
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<td>MAC 2311***</td>
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<tr>
<td>MAC 2312***</td>
<td>4</td>
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<tr>
<td>MAC 2313***</td>
<td>4</td>
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<tr>
<td>BSC 2010CC</td>
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<tr>
<td>PHY 2048* &amp; L</td>
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3. Core requirements (52 hrs)

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<tr>
<td>ENC 3310 Magazine Writing I</td>
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<td>ENC 3311 Advanced Expository Writing</td>
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<td>STA 2023 Statistical Methods I</td>
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<td>STA 4322 Statistical Theory II</td>
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<td>STA 4323 Probability Theory</td>
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4. Restricted Electives (6 hrs)

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<td>MAD 4203 Combinatorics &amp; Graph Theory</td>
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<td>MAP 4103 Mathematical Modeling</td>
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<tr>
<td>MAP 4153 Vector and Tensor Analysis</td>
<td>3</td>
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<tr>
<td>MAP 4307 App of Complex Variables</td>
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<td>MAP 4309 App of Boundary Value Prob</td>
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<td>MAP 4312 Statistical Theory II</td>
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<td>STA 4323 Probability Theory</td>
<td>3</td>
</tr>
<tr>
<td>STA 4341 Mathematical Modeling</td>
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UCF Degree Programs

199
5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each course required in the degree program (sections 2-4 above)
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by COP 2200

6. Foreign Language Requirements

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, Credit by Exam, and Armed Forces credits permitted

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- COP 3223* may use any programming language course with a COP prefix
- BSC 2010C*; may use any laboratory BSC or CHM lab course which is designed for majors, or CHM 2045C if CEP was completed before transferring.
- PHY 2048*: may use any PHY course with a lab. However PHY 2048 is a prerequisite for PHY 2049 and must be taken

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Related Programs: Applied Math, Computer Science, Engineering, Math Education, Statistics

Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Admission Requirements

Graduation Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, MAC 2312, MAC 2313, and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.

Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.

- Students must earn at least a “C” (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in sections 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 + 3 hrs)

Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>A. Communication Foundations</td>
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</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>1. Select MAC 2311</td>
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<tr>
<td>2. Select COP 3502C</td>
<td>3 hrs</td>
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<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>1. Select BSC 2010C</td>
<td>4 hrs</td>
</tr>
<tr>
<td>2. Select PHY 2048 &amp; L</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

2. Common Program Prerequisites (11 hrs)

*See Transfer Notes for possible substitutes

3. Basic Core Requirements (10 hrs)

- COP 3502C Computer Science I                                        | 4 hrs    |
- PHY 2049 & L Physics for Sci & Eng I wlab                            | 3 hrs    |

4. Advanced Core Requirements (42 hrs)

Select one course

- MTH 4900 Logic and Proof in Mathematics
5. Restricted Electives (18 hrs)
Select six upper division courses
- COP 3402C Systems Software 3 hrs
- COP 3503C Computer Science III 3 hrs
- CDA 4150 Computer Architecture 3 hrs
- COP 4020 Programming Languages I 3 hrs
- COP 4600 Operating Systems 3 hrs
- COP 4210 Discrete Computational Structures or any MAA, MAD, MAP, MAS, or MTG upper division courses 3 hrs

6. Departmental Exit Requirements
- Earn a grade of "C" (2.0) or better in each course required in the degree program (sections 2-5 above).
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by COP 3502C.

7. Foreign Language Requirements
Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation: none

8. Electives (variable)
Students desiring to complete a double major in both Computer Science and Applied Mathematics must also complete all the requirements of the School of Computer Science. To minimize the total hours taken for both majors, students should select an advanced computer science course for the unrestricted elective.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Applied Mathematics, Computer Science, Engineering, Math Education, Statistics
Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics
Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- COP 3223*: may use any programming language course with a COP prefix.
- BSC 2010C*: may use any laboratory BSC or CHM lab course which is designed for majors, or CHM 2045C if GEP was completed before transferring.
- PHY 2048*: may use any PHY course with a lab; however, PHY 2048 is a prerequisite for PHY 2049 which must be taken.

1. UCF General Education Program (36 + 3 hrs)
(May be used: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
   1. Select MAC 2311 4 hrs
   2. Select COP 3502C 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations
   1. Select BSC 2010C 4 hrs
   2. Select PHY 2048 & L 4 hrs

2. Common Program Prerequisites (11 hrs)
- COP 3223* Intro to Programming with C 3 hrs
- COP 3503C Computer Science I 3 hrs
- MAC 2311 Calculus with Analytic Geo I GEP
- MAC 2312 Calculus with Analytic Geo II 4 hrs
- MAC 2313 Calculus with Analytic Geo III 4 hrs
- BSC 2010C* Biology I GEP
- PHY 2048&L Physics for Sci & Eng I w/lab 3 hrs
*See Transfer Notes for possible substitutes

3. Basic Core Requirements (10 hrs)
- COP 3502C Computer Science I GEP
- PHY 2049&L Physics for Sci & Eng II w/lab 4 hrs
- MAP 2302 Differential Equations 3 hrs
- Select one course 3 hrs
- STA 3032 Prob. & Stats for Engineers
- STA 2023 Statistical Methods I

4. Advanced Core Requirements (53 hrs)
Select one course 3 hrs
- MHF 3302 Logic and Proof in Mathematics
- COP 3100C Intro to Discrete Structures
Select one course 3 hrs
- MAP 4103 Mathematical Modeling
- EML 3034C Modeling Meth in Mech. & Aero Eng
- PHZ 3151 Computer Methods in Physics
Select one course 3 hrs
- MAP 4153 Vector and Tensor Analysis
- MAP 4307 Appl of Complex Variables
- MAP 4363 Appl Boundary Value Prob I
- MAP 4364 Appl Boundary Value Prob II
- MAA 4236 Advanced Calculus I
- EGN 3321 Engineering Analysis - Dynamics
Select one course 3 hrs
- EGN 3420 Engineering Analysis
- COP 4500 Numerical Calculus
Select one course 4 hrs
- MAS 3106 Linear Algebra
- MAD 4203 Combinatorics & Graph Theory
Select one course
- EGN 3310 Engineering Analysis - Statics 3 hrs
- EGN 3311 Mechanical Design 3 hrs
- EGN 3312 Analytical Methods 3 hrs

Select one course
- EGN 3373 Principles of Electrical Engineering 3 hrs
- EGN 3374 Principles of Electrical Engineering II 3 hrs
- EGN 3375 Principles of Electrical Engineering III 3 hrs

Select one course
- CHM 2046 Chemistry Fundamentals II 3 hrs
- or any MAA, MAD, MAP, MAS, or MTG course at 3000 level or above

Select one course
- CPAT 3301 Chemical Engineering 3 hrs
- or any MAA, MAD, MAP, MAS, or MTG course at 3000 level or above

Select one course
- EML 4202 Fluid Mechanics 3 hrs
- or any MAA, MAD, MAP, MAS, or MTG course at 3000 level or above

Select one course
- EEL 4110C Structural Analysis I 3 hrs
- EEL 4111C Structural Analysis II 3 hrs
- EEL 4112C Structural Analysis III 3 hrs

5. Restricted Electives (6 hrs)
Select two courses
- STA 4321 Statistical Theory I 3 hrs
- STA 4322 Statistical Theory II 3 hrs
- PHY 3321 Electricity & Magnetism I 3 hrs
- EEL 4105C Cabling Technology 3 hrs
- CHM 4010C Environmental Chemistry 3 hrs

6. Departmental Exit Requirements
- Earn a grade of “C” (2.0) or better in each course required in the degree program (sections 2-5 above).
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by EGN 3420 or COP 3502C.

7. Foreign Language Requirements
Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Courses taken at community colleges do not substitute for Upper Division courses.

**Related Programs:** Statistics, Applied Math, Computer Science, Engineering, Math Education

**Related Minors:** Computer Science, Engineering, Math, Physics, Statistics

**Transfer Notes:** Courses taken at community colleges do not substitute for Upper Division courses.

### Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:

- COP 3223*: may use any programming course with a COP prefix.
- BSC 2010C*: may use any laboratory BSC or CHM lab course which is designed for majors, or CHM 2045C if GEP was completed before transferring.
- PHY 2048*: may use any PHY course with a lab. However PHY 2048 is a prerequisite for PHY 2049 and must be taken

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Summer

- Math placement See catalog

### Freshman Year

- **Fall**
  - ANT 2000* req# 1D-GE 3
  - ENC 1101 Composition I 3
  - ENC 3241* req# 3-Core 3

- **Spring**
  - ENC 3241* req# 3-Core 3

### Sophomore Year

- **Fall**
  - ENC 3310 Magazine Writing 3
  - ENC 3311 Advanced Expository Writing 3
  - STA 2023 Statistical Methods 3

- **Spring**
  - STA 4321 Stat Theory I 3
  - STA 4322 Statistical Theory II 3

### Junior Year

- **Fall**
  - COP 3502C Computer Science I GEP 3
  - MAC 2313 Calc Anal Geo I GEP 3
  - STA 2023 Stat Methods I 3

- **Spring**
  - COP 3223 Intro to Prog C 3
  - MAC 2311 Cal Anal Geo II 4
  - STA 2023 Stat Methods I 3

### Senior Year

- **Fall**
  - ENC 3311 Advanced Expository Writing 3
  - ENC 3310 Magazine Writing 3
  - STA 2023 Statistical Methods 3

- **Spring**
  - ENC 3310 Magazine Writing 3
  - ENC 3311 Advanced Expository Writing 3

### UCF Degree Programs

**MATHEMATICS EDUCATION (B.S.)**

**College of Education**

**Department of Teaching and Learning Principles**

**ED 209:** [http://pegasus.cc.ucf.edu/~mathed](http://pegasus.cc.ucf.edu/~mathed)

**Program Coordinator:** Dr. Michael Hynes

**E-mail:** hynes@mail.ucf.edu

- **Admission Requirements**
  - Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
  - Have a minimum 2.5 overall GPA
  - Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
  - Complete prerequisite courses

- **Degree Requirements**
  - Students should see an advisor prior to registering for classes
  - The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

- **1. UCF General Education Program**
  - **A. Communication Foundations**
    - (37 hrs)
  - **B. Communication Proficiency**
    - (9 hrs)

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*See Transfer Notes for possible substitutes

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### 5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each course required in the degree program (sections 2-4 above)
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by COP 3502C

### 6. Foreign Language Requirements

**Admission:** Two years high school or one year college language (or equivalent proficiency exam) prior to graduation.

**Graduation:** None

### 7. Electives (variable)

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required** 120 hours

**Related Programs:** Statistics, Applied Math, Computer Science, Engineering, Math Education

**Related Minors:** Computer Science, Engineering, Math, Physics, Statistics

**Transfer Notes:** Courses taken at community colleges do not substitute for Upper Division courses.
UCF Degree Programs

ENC 1101 Composition I 3 hrs
ENC 1102 Composition II 3 hrs
Select SPC 1600 Fundamentals of Oral Communication 3 hrs
B. Cultural-Historical Foundations (9 hrs)
Select AMH 2010 U.S. History 1492-1877 3 hrs
Select AMH 2020 U.S. History 1877-Present 3 hrs
Select PHI 2010 Introduction to Philosophy 3 hrs
C. Mathematical Foundations (7 hrs)
Select MAC 2311 Calculus with Analytic Geometry I 4 hrs
Select STA 2023 Statistical Methods I 3 hrs
D. Social Foundations (6 hrs)
Prefer POS 2401 American National Government 3 hrs
Select PSY 2012 General Psychology 3 hrs
E. Science Foundations (6 hrs)
Prefer PSC 1121 Physical Science 3 hrs
Select one:
ANT 2511 The Human Species or BSC 1005 Biological Principles 3 hrs

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (24 hrs)
A. Communications (9 hrs)
ENC 1101 Composition I or ENC 1102 Composition II or SPC 1600 Fundamentals of Oral Communication

B. Humanities (6 hrs)
PHI 2010 Introduction to Philosophy or ARH 2505 History of Western Art I or ARH 2505 History of Western Art II or MUL 2010 Enjoyment of Music or THE 2000 Theatre Survey or FIL 2400 History of Motion Pictures

C. Mathematics (11 hrs)
MAC 2311 Calculus with Analytic Geometry I or MAC 2312 Calculus with Analytic Geometry II or STA 2023 Statistical Methods I

D. Social Science/History (12 hrs)
AMH 2010 U.S. History 1492-1877 or AMH 2020 U.S. History 1877-Present or POS 2401 American National Government or PSY 2012 General Psychology

E. Science (10 hrs)
PSC 1121 Physical Science or Select one of the following (per GEP)
ANT 2511 The Human Species or BSC 1005 Biological Principles or Select one:
AST 2002 Astronomy or GEO 1200 Physical Geography or GLY 1030 Geology and its Applications or Select one associated science lab:
BSC 1005L Biological Principles Laboratory or PSC 1121L Physical Science Laboratory

F. Education Courses (9 hrs)
EDF 2005 Introduction to Education or EDG 2701 Teaching Diverse Populations or EME 2040 Technology for Educators

G. Diversity Courses (4 hrs)
Select one:
MAC 2313 Calculus with Analytic Geometry III or Note: student should consult advisor regarding course options.

3. Education Core Requirements (15 hrs)
EDG 4232 Professional Teaching Practices 3 hrs
EDG 4603 Analysis of Critical Issues in Education 3 hrs
EDG 4214 Classroom Learning Principles 3 hrs
TSL 4080 Theory and Practice of Teaching ESOL 3 hrs
LAE 4361 Literacy Strategies for Mid/High School 3 hrs

4. Internship I (ESE3940) (3 hrs)
Program Internship Prerequisites: EDG 4323 and at least 50% of all required mathematics courses must be completed prior to Internship I with a minimum grade of “C” in all of these prerequisite courses.
See additional requirements listed under College of Education, Office of Clinical Experiences

5. Specialization Requirements (37 hrs)
NOTE: Some course waivers/substitutions may be possible. See advisor.
MAP 2902 Differential Equations 3 hrs
MAP 4103 Mathematical Modeling 3 hrs

MAS 4301 Algebra Structure 3 hrs
MAD 4203 Combinatorics & Graph Theory 4 hrs
MAE 4300 Mathematics Instructional Analysis 4 hrs
MAE 4344 Programs in Teaching Mathematics 3 hrs
MAS 3105 Elementary Linear and Matrix Algebra 4 hrs
MAS 3203 Introduction to Number Theory 3 hrs
MHF 3302 Logic and Proof in Mathematics 3 hrs
MNF 4404 History of Mathematics 3 hrs
MTG 4212 Modern Geometry 4 hrs

6. Internship II (ESE4943) (12 hrs)
At least 80% of all required mathematics courses and all methods courses must be completed before doing Internship II.
See additional requirements under College of Education, Office of Clinical Experiences.
Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

7. Foreign Language Requirements (0-8 hrs)
State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school)

8. Departmental Exit Requirements
At least 2.0 UCF GPA
60 semester hours earned after CLEP awarded
48 semester hours of upper division credit completed
30 of the last 36 hours of course work must be completed in residency at UCF
25% of course work must be completed in residency at UCF
Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

10. Total Program Semester Hours Required 128 hours
At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

11. Recommended Four-Year Sequence of Courses

Freshman Year
Fall (17 hrs) Spring (16 hrs)
EDG 2701 3 hrs AMH 2010 3 hrs
ENC 1101 3 hrs ENC 1102 3 hrs
MAC 2311 4 hrs MAC 2312 4 hrs
PSC 1121 3 hrs STA 2023 3 hrs
MSC 2110 3 hrs EME 2040 3 hrs

Sophomore Year
Fall (15 hrs) Spring (16 hrs)
MAP 2302 3 hrs MAP 2302 3 hrs
MNF 3302 3 hrs EME 2040 3 hrs
PSY 2012 3 hrs ENC 1102 3 hrs
AST 2002 or MAC 2313 3 hrs MAS 2303 3 hrs
GEO 1200 or POS 2041 3 hrs PSC 1121L 1 hr
MTG 2410 or ANT 2511 or BSC 1005 3 hrs

Junior Year

Senior Year

Note: Some course waivers/substitutions may be possible. See advisor.
Junior Year
Fall (16 hrs)  |  Spring (13 hrs)
---|---
EDF 4603 | EDF 4214
3 hrs  |  3 hrs
EDG 4233 | MAE 4534
2 hrs  |  3 hrs
MAE 4360 | MAP 4103
4 hrs  |  3 hrs
MTS 4404 | MTG 4212
3 hrs  |  4 hrs
TSL 4080 | 
3 hrs  |  

Senior Year
Fall (13 hrs)  |  Spring (12 hrs)
---|---
ESE 3940 | ESE 4943
3 hrs  |  12 hrs
LAE 4361 | 
2 hrs  |  
MAD 4203 | 
4 hrs  |  
MAS 4301 | 
3 hrs  |  

MECHANICAL ENGINEERING (B.S.M.E.)

College of Engineering and Computer Science
Mechanical, Materials & Aerospace Engineering

Department,
ENGR 307, 407-823-2416,
Fax: 407-823-0208
http://www.mmae.ucf.edu
Undegraduate Adviser: Waheeda Illasari

Admission Requirements:
All entering students are required to attend Orientation before registering for their first semester at UCF. Engineering students should closely study the requirements of the UCF General Education Program (GEP) and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College Systems should complete the GEP and the Common Program

1. UCF General Education Program for (36+2 hrs)

   A. Communication Foundations 9 hrs
      1. ENC 1101 & ENC 1102
      2. Prefer SPC 1016
   
   B. Cultural and Historical Foundations 9 hrs
      1. Select two courses from Historical Foundations
      2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300,
      PHI 2010, LIT 2110, or LIT 2120
   
   C. Mathematical Foundations 7 hrs
      1. Select MAC 2311 (PR: MAC 1144)
      2. Select STA 3032 (PR: MAC 2312)
   
   D. Social Foundations 6 hrs
      1. Prefer ECO 2013 or ECO 2023.
   
   E. Science Foundations 7 hrs
      1. Select PHY 2054/48L (PR: MAC 2312)
      2. ANT 2011, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310

2. Common Program Prerequisites (CPP's) (19 hrs)

   These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Science courses. Social Science Courses
   
   CHS 1440  |  Fundamentals of Chemistry for Eng (CHM 2045C45L will substitute) 4 hrs
   MAC 2311  |  Calculus with Analytic Geometry I
   MAC 2312  |  Calculus with Analytic Geometry II
   MAC 2313  |  Calculus with Analytic Geometry III
   MAP 2302  |  Differential Equations
   PHY 2048/48L | Physics for Engineers & Scientists I
   PHY 2049/49L | Physics for Engineers & Scientists II
   ENC 1101  |  Composition I
   ENC 1102  |  Composition II
   Humanities Courses
   Social Science Courses
   Humanities or Social Sciences

3. Courses Required for the Major (65 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the senior design courses listed in 4.

   A. Energy Systems Option
   EML 3010 | Thermodynamics of Mechanical Sys 3 hrs
   EML 4304C | Thermo-fluids Measurements 2 hrs
   EML 4703 | Fluid Mechanics II 3 hrs
   Restricted Mechanical Systems Elective 3 hrs
   Approved Electives 9 hrs

   B. Mechanical Systems Option
   EMA 302C | Experimental Techniques in Mechanics & Materials 2 hrs
   EML 3262 | Kinematics of Mechanisms 3 hrs
   EML 3804C | Digital Control in Mechatronics 3 hrs
   Restricted Energy Systems Elective 3 hrs
   Approved Electives 9 hrs

   C. Materials Option
   EMA 3012C | Experimental Techniques in Mechanics & Materials 2 hrs
   EMA 4102 | Thermodynamics and Kinetics of Materials 3 hrs
   EMA 3124 | Design and Selection of Materials 3 hrs
   Restricted Materials Systems Elective 3 hrs
   Approved Electives 9 hrs

4. Departmental Graduation Requirements (6 hrs)
   EML 4501C | Engineering Design I or EGN 4412C Interdisciplinary Design I 3 hrs
   EML 4502C | Engineering Design II or EGN 4413C Interdisciplinary Design II 3 hrs

   CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

5. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

6. Approved Restricted and Technical Electives
   Technical electives are available in the BSME program to address specific student interests in a variety of technical areas. Restricted electives are intended to ensure that all students have a significant design experience in both mechanical and thermofluids systems. Students should consult with their Department for a list of the approved restricted and technical electives and the terms when specific courses of this type are to be offered.

7. University Minimum Graduation Requirements
   A 2.0 UCF GPA.
   60 semester hours earned after any CLEP award.
   48 semester hours of upper division credit completed.
   30 of the last 36 hours of course work must be completed in residence at UCF.
   25% of course work must be completed in residency at UCF.
   A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armored Forces credits permitted.
   Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).
## UCF Degree Programs

### Total Semester Hours Required:
- 128 hrs

### Related Programs:
- Aerospace Engineering, Industrial Engineering.

### Related Minors:

### Tentative Course Schedule for Entering Freshmen

#### FIRST YEAR

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<th>Semester</th>
<th>Courses</th>
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<td>Fall</td>
<td>EGN 1006C Intro to Eng Prof 1</td>
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<td>*ENC 1101 English Comp I 3</td>
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<td>*CHS 1440 Chin Eng or 4</td>
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<td>CHM 2045C wlab 4</td>
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<td>*MAC 2311 Calc I 4</td>
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<td>*ECC 2013 or 2023 Macro or Micro 3</td>
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<tr>
<td>Spring</td>
<td>EGN 1007C Eng Conc&amp;Meth 1</td>
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<td>*ENC 1002 English Comp II 3</td>
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<td>*MAC 2312 Calc II 4</td>
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<td>*SPC 1016 Oral Comm for Eng or 3</td>
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<td>*PHY 2048 Phys Eng I wlab 4</td>
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#### SECOND YEAR

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<tr>
<td>Fall</td>
<td>EGN 1111C Engr Comp Graph 2</td>
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<td>*MAP 2302 Diff Equations 3</td>
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<td>EGN 3310 Engr Anal-Statics 3</td>
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<td>*PHY 2049 Phys Eng II wlab 4</td>
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<td>STA 3032 Prob &amp; Stats/Engrs 3</td>
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<td>EGN 3367 Prin of Elec Engr 3</td>
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<td>EGN 3321 Engr Anal-Dynamics 3</td>
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<td>EGN 3365 Strpr &amp; Prop Matls 3</td>
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<td>EGN 3603 Solid Mechanics 3</td>
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<td>EML 3701 Fluid Mechanics I 3</td>
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#### THIRD YEAR

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<tr>
<td>Fall</td>
<td>EML 3700 Fluid Mechanics II 3</td>
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<td>EML 3703 Fluid Mechanics II 3</td>
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<td>EML 4501C Modeling Methods 3</td>
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<td>EML 3303C Mech Eng Meas 2</td>
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<td>*Science Foundations 2 3</td>
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<td>*Historical Foundations 3</td>
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<td>EML 3034C Modeling Methods 3</td>
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<td>EML 4142 Heat Transfer 3</td>
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<td>EML 4535C CADCAM 3</td>
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<td>EML 3500 Machine Design 3</td>
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#### FOURTH YEAR

### I. ENERGY SYSTEMS OPTION

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<td>EML 4501C Eng Design I or 3</td>
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<td>EGN 4412C Inter Design I 3</td>
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<td>EML 4312C Feedback Control 3</td>
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<td>Restricted Mechanical Systems Elect 3</td>
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<td>EML 4502C Eng Design II or 3</td>
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<td>EGN 4413C Inter Design II 3</td>
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<td>*EML 4040C Meas Therm Sys 2</td>
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<td>*Cultural Foundations 2 3</td>
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<td>EML 3262 Kinem Mechns 3</td>
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<td>EML 4501C Eng Design I or 3</td>
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### II. MECHANICAL SYSTEMS OPTION

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<tbody>
<tr>
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</tr>
<tr>
<td></td>
<td>EML 4501C Eng Design I or 3</td>
</tr>
<tr>
<td></td>
<td>EGN 4412C Inter Design I 3</td>
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<td></td>
<td>EML 4312C Feedback Control 3</td>
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<tr>
<td></td>
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<td>EML 3804C Mechatronics 3</td>
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<td></td>
<td>EML 3012C Exp Tech Mech/Mtrl 2</td>
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<tr>
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<td>*Cultural Foundations 3</td>
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<tr>
<td>Spring</td>
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<td></td>
<td>EGN 4413C Inter Design II 3</td>
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<td></td>
<td>EML 3012C Exp Tech Mech/Mtrl 2</td>
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<td>*Cultural Foundations 3</td>
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### III. MATERIALS OPTION

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<tr>
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<td></td>
<td>EML 4501C Eng Design I or 3</td>
</tr>
<tr>
<td></td>
<td>EGN 4412C Inter Design I 3</td>
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<tr>
<td></td>
<td>EMA 3124 Design &amp; Select of Mtls 3</td>
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<td></td>
<td>EML 4312C Feedback Control 3</td>
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<td>Restricted Materials Systems Elect 3</td>
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<td>Approved Elective 3</td>
</tr>
<tr>
<td></td>
<td>*Cultural Foundations 3</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 the MMAE website (www.mmae.ucf.edu) or with the MMAE Associate Chairman in ENGR 307 for a list of approved technical electives and for the terms when specific courses of this type are to be offered. Students should check with the MMAE Associate Chairman each semester to ensure they are making satisfactory progress toward their degree.
3. The State University System requires students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.

### Important Notice
- Certain courses required for this major serve as key prerequisites or are offered in specific terms. Any deviation from the four-year plan should be discussed with an academic advisor. Failure to take the courses as listed may result in a delay in the date of your graduation.
- Caution must be taken to ensure that you take courses in a proper sequence regarding prerequisites.
- If you do not have a higher level programming language background you must take a course in this area prior to taking EML 3034C (C* or FORTRAN recommended).
- If you are not ready to begin the Calculus sequence upon entry to the Mechanical Engineering curriculum it is imperative that you meet with your advisor to plan a personalized program of study. Mathematics and physics are cornerstones of a quality engineering program and it is important for your academic career that you proceed accordingly.

### Accelerated BS/MS Degree Program
The Mechanical, Materials, and Aerospace Engineering Department offers the Integrated Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve graduate hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

### MEDICAL LABORATORY SCIENCES (B.S)

**Burnett College of Biomedical Sciences**

HPA2 335, 407-823-5932

http://www.biomed.ucf.edu

**Undergraduate Program Director:** Dorilyn Hitchcock
E-mail: hitchco@ucf.edu

### Admission Requirements

#### Limited Access
Acceptance to the university does not necessarily constitute admission to the upper division medical laboratory science program.

- **Separate application** to the limited access program should be made directly to the program in the Spring of the year admission is sought. Preference will be given to those who apply prior to March 1, but applications will be accepted until the class is filled.

- **UCF application** must also be submitted by the program deadline. Acceptance to UCF is necessary before acceptance to the program can occur.

- **Student must complete all general education, foreign language requirements, and program prerequisites prior to the start of the program**

- **This limited access program** is work-intensive and courses include clinical practice in a variety of settings. Due to this, it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.

- **All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of “C“ (2.0)**

### Degree Requirements

#### The Medical Laboratory Sciences program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS - 8410 Bryn Mawr Avenue Suite 670, Chicago, IL 60663) and is approved as a training program by the state of Florida Board of Clinical Laboratory Personnel.

- **Students who change degree programs and select this major must adopt the most current catalog.

- **Students should complete the General Education Program, Foreign Language Admissions and the Common Program**
Prerequisite Requirements before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours.
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Medical Laboratory Sciences Program
- UCF Residency Requirement: 32 hours
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours
- An FDLE background check and Board of Clinical Lab Personnel trainee license are required.

1. UCF General Education Program (36 + 2 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural Historical Foundations 9 hrs
   - C. Mathematical Foundations 6
     Select MAC 1105
     Select STA 2023
   - D. Social Foundations 6 hrs
   - E. Science Foundations
     Select BSC 2010C
     Select CHM 2045C

2. Common Program Prerequisites (25 hrs)
   - BSC 2010C General Biology and lab GEP
   - CHM 2045C, 2046 Chemistry Fundamentals I&II w/labs GEP
   - 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 3100C General Microbiology* 5 hrs
   - PCB 3700C Human Physiology and Lab* 4 hrs
   * see Transfer Notes

3. Core Requirements (63 hrs)
   - MLS 3220C Clinical Microscopy with lab 3 hrs
   - MLS 4625 Advanced Clinical Chemistry I/lab 3/1 hrs
   - MLS 4630 Advanced Clinical Chemistry II 3 hrs
   - PCB 3233 Immunology with Lab 3/1 hrs
   - MLS 4100 General Microbiology* 5 hrs
   - MLS 4830C Diagnostic Microbiology 4 hrs
   - MLS 4831C Concepts in Education/Management 3 hrs
   - MLS 4832C Diagnostic Microbiology 4 hrs
   - MLS 4833C Computer Fundamentals for Business 3 hrs
   - BSC 3405C Quantitative Biological Methods 4 hrs

4. Upper Division Restricted Electives none

5. Departmental Exit Requirements (126 hrs)
   - A minimum 2.5 overall GPA is required for clinical assignment.
   - The Degree in Medical Laboratory Sciences will be awarded upon satisfactory completion of the University's didactic component and the clinical component in affiliated hospital laboratories.
   - Upon receiving the degree in Medical Laboratory Sciences, the graduate will be eligible to write a national certification examination and then qualify for State Licensure.
   - Students must earn a grade of "C" (2.0) or higher in required courses with a minimum 2.5 overall GPA for graduation

6. Electives none

7. Foreign Language Requirements (0-8 hrs)
   - Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Graduation: none

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - 25% of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 126 hrs

Related Programs: Molecular Biology and Microbiology, Biology, Chemistry

Related Minors: Molecular Biology and Microbiology, Biology, Chemistry

Transfer Notes:
- Community College Equivalencies
  - Human Anatomy and Physiology I & II
    - (BSC 2093C and 2094C) 8 hrs
  - General Microbiology/Lab (MCB 3020C) 4 hrs

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Tentative Course Schedule for Entering Freshmen

Freshman Year
Fall 16 hrs  Spring 17 hrs
- ENC 1101 3  ENC 1102 3
- MAC 1105 3  BSC 2010C 4
- SPC 1600 3  CHM 2046 3
- CHM 2045C 4  CHM 2046L 1
- CGS 2100CC 3  ANT 2000 or SYG 2001 3
- or PSY 2012
- STA 2023 3

Sophomore Year
Fall 16 hrs  Spring 17 hrs
- POS 2041 or ECO 2013 3  CHM 2210 3
- CHM 2211 3  CHM 2211L 2
- ZOO 3733C 4  MCB 3020C 5
- EUH 2000 or HUM 2210 3  PCB 3700C 4
  - or AMH 2010 EUH 2001 or 3
- MUL 2010 or THE 2000 3  HUM 2230 or
  - or REL 2300 or PHI 2010 AMH 2020

Junior Year
Fall 13 hrs  Spring 16 hrs
- MLS 3220C 3  MCB 3020C 4
- MAC 4655L 3  BSC 2093C and 2094C 8 hrs
- PCB 3233L 3/1  MCB 3020C 4
- MCB 3100C 5  MLS 4460C 4
- MLS 4300C 2  MLS 4500 4

Summer 6 hrs
- CGS 1060 3
- MLS 4334 3

Senior Year
Fall 16 hrs  Spring 12 hrs
- MLS 4830C 4  MLS 4831C 4
- MLS 4831C 4  MLS 4832C 4
- MLS 4832C 4  MLS 4833C 4
- MLS 4833C 4  MLS 3705 3
- BSC 3405C 4

MODERN LANGUAGE COMBINATION (B.A.)

College of Arts and Humanities
Department of Modern Languages & Literatures,
CNH 523
http://pegasus.cc.ucf.edu/~forlang
E-mail:moderlanguages@ucf.edu
P. Giordano, 407-823-2472

Admission Requirements
- Placement in Language courses
- Placement in language courses is based on one year of high
**UCF Degree Programs**

**Degree Requirements**
- Students who change degree programs and select this major must adopt the most current catalog.
- Language combinations may consist of French, German or Spanish as a first language and any of those three as a second language, as well as Italian.
- 24 credits in the first language and 15 credits in the second must be taken at the 3000 level or above.
- At least 33 hours must be taken in Modern Language courses taught in the target language.
- Students must earn at least a “C” (2.0) in each upper division foreign language course.
- Co-op or internship credit cannot be used in this major.
- Departmental Residency Requirement consists of at least 21 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and Literatures.
- Language credit by exam will not be given in courses lower in level than those in which studit 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)

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
</tr>
<tr>
<td>D. Social Foundations</td>
</tr>
<tr>
<td>E. Science Foundations</td>
</tr>
</tbody>
</table>

#### 2. Common Program Prerequisites (0-14 hrs)

Completion of Intermediate level of proficiency.

#### 3. Core requirements-first language (24 hrs)

(French, German or Spanish)

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Composition (select one)</td>
</tr>
<tr>
<td>b. Oral Communication (select one)</td>
</tr>
</tbody>
</table>

#### 4. Core requirements-second language (15 hrs)

(French, German, Spanish, or Italian)

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Composition (select one)</td>
</tr>
<tr>
<td>b. Advanced Oral Communication (select one)</td>
</tr>
<tr>
<td>c. Restricted Electives in the second language (chosen with departmental advisor)</td>
</tr>
</tbody>
</table>

#### 5. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or higher in at least 39 hrs of upper division Modern Language courses.
- Students are required to satisfactorily complete a departmental exit exam.
- Computer Competency met by CGS 1060C or equivalent.

#### 6. Foreign Language Requirements (0-16 hrs)

Admission: Met by Graduation requirements.
Graduation: Met by department program requirements (four semesters or proficiency).

#### 7. Electives (variable)

Select primary from upper level courses, with departmental advisor’s approval. May be outside of the department.

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### Total Semester Hours Required 120 hrs

**Related Programs:** French, Spanish

**Related Minors:** French, German, Italian, Judaic Studies, Latin American Area Studies, Spanish

**Transfer Notes:**
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated by the department chair for equivalency credit. The student must provide all supporting information.

**Suggested Plan of Study:**
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

**Freshman Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>BSC 1005* req# 1E2-GEP</td>
<td>ENC 1102 Composition II</td>
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<tr>
<td>ENC 1101 Composition I</td>
<td>MUL 2010* req# 1E1-GEP</td>
</tr>
<tr>
<td>AMH 2010* req# 1B1-GEP</td>
<td>STA 1060C* req# 1C2-GEP</td>
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<tr>
<td>MGF 1106* req# 1C1-GEP</td>
<td>SPA 2201* req# 2-CPP</td>
</tr>
<tr>
<td>SPN 1120* req# 2-CPP</td>
<td>FRE 1120* req# Lang/Elect</td>
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<tr>
<td>SPN 1121* req# 2-CPP</td>
<td>SPN 1121* req# Lang/Elect</td>
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**Sophomore Year**

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<tbody>
<tr>
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<td>ENC 1102 Composition II</td>
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<tr>
<td>ENC 1101 Composition I</td>
<td>MUL 2010* req# 1E1-GEP</td>
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<tr>
<td>SPN 1121* req# Lang/Elect</td>
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**Junior Year**

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<tr>
<td>SPN 3420* req# 3a-Core1</td>
<td>REL 2300* req# 1B3-GEP</td>
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<tr>
<td>SPN 3420* req# 3b-Core1</td>
<td>SPN2201* req# 2-CPP</td>
</tr>
<tr>
<td>SPN 3420* req# 3c-Core1</td>
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<tr>
<td>SPN 3420* req# 3d-Core1</td>
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<tr>
<td>SPN 3760* req# 4e-Core1</td>
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**Senior Year**

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<td>SPN 3760* req# 3e-Core1</td>
<td>SPN 4421* req# 3e-Core1</td>
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<td>SPN 3760* req# 3f-Core1</td>
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<tr>
<td>SPN 3760* req# 3g-Core1</td>
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<tr>
<td>SPN 3760* req# 3h-Core1</td>
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</tr>
<tr>
<td>SPN 3760* req# 3i-Core1</td>
<td>Selective* Check restrictions</td>
</tr>
</tbody>
</table>

**Graduation:** Met by department program requirements (four semesters or proficiency).
**MOLECULAR BIOLOGY AND MICROBIOLOGY (B.S.)**

**Burnett College of Biomedical Sciences**

**HPA2 335, 407-823-5932**

**Molecular Biology and Microbiology Department**

http://www.biolmed.ucf.edu

Chair: P.Kolattukudy

### Admission Requirements

**none**

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

#### 1. UCF General Education Program **(38-39 hrs)**

(Note: Certain courses must be selected in GEP for this major, bringing the total GEP hours to more than 36.)

- Select ENC 1101, ENC 1102
- Prefer SPC 1016 Tech Presentations
- Select BSC 2010C
- Select CHM 2045C

#### 2. Common Program Prerequisites **(16 hrs)**

- Select BSC 2010C
- Select CHM 2045C

#### 3. Core Requirements **(33 hrs)**

- Select MCB 3020C
- Select PCB 4239, 4233L

#### 4. Upper Division Restricted Elective **(7 courses minimum)**

(Seven courses, no more than two may be taken outside the Molecular Biology and Microbiology Department and at least two must be a laboratory course. No more than two may be MLS courses. Enrollment in some MLS courses is restricted. Check with advisor before enrolling. Only three hours of Honors thesis will count towards restrictive elective requirement.)

- *MCB 4054 Biochemistry II 3 hrs
- *MCB 4103L Biochemical Methods 2 hrs

- **Those students interested in pursuing graduate or professional education are strongly advised to select the following courses.**

- **Phy 2053C, 2054C College Physics I, II or 2048, 2049C
- Math**, Statistics, Computer
- **MAC 2231 or MAC 2233
- STA 2023 or CGS 1060

- **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 pass a comprehensive test during their last semester

#### 5. Departmental Exit Requirements **(81-91 hrs)**

To be eligible for a major in Molecular Biology and Microbiology:

- **A 2.0 UCF GPA**
- **48 semester hours of upper division credit completed**
- **30 of the last 36 hours of course work must be completed in residence at UCF**
- **A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted**
- **Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)**

#### 6. Electives **(variable)**

Students are encouraged to participate in undergraduate research if interested in pursuing graduate or professional education.

#### 7. Foreign Language Requirements **(0-8 hrs)**

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: **none**

#### 8. University Minimum Exit Requirements

- **A 2.0 UCF GPA**
- **48 semester hours of upper division credit completed**
- **30 of the last 36 hours of course work must be completed in residence at UCF**
- **A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted**
- **Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)**

**Total Semester Hours Required 120 hrs**

**Related Programs:** Biology, Chemistry, Medical Lab Science

**Related Minors:** Biology, Chemistry

**Transfer Notes:**

Students who begin a two semester sequence course (e.g. General Chemistry) at a community college are strongly encouraged to com-
Students desiring admission to professional schools (medical, dental, optometry, veterinary, podiatry, and pharmacy) will meet all the admission requirements for those programs while obtaining a Molecular Biology and Microbiology degree.

**Tentative Course Schedule for Entering Freshmen**

**Freshman Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>13 hrs</th>
<th>Spring</th>
<th>16 hrs</th>
</tr>
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<tbody>
<tr>
<td>ENC 1101</td>
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<td>ENC 1102</td>
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<tr>
<td>PSY 2012 or SYG 2000</td>
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<td>CHM 2046</td>
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<td>or ANT 2000</td>
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<td>CHM 2046L</td>
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<td>CHM 2045C</td>
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<td>MAC 1114</td>
<td>3</td>
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<td>MAC 1105</td>
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<td>BSC 2010C</td>
<td>4</td>
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<tr>
<td>SLS 2311C*</td>
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<td>(Preprofessional)</td>
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</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>14/15 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
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<tr>
<td>CHM 2210</td>
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<td>CHM 2211</td>
<td>3</td>
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<td>MCB3020C</td>
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<td>CHM 2211L</td>
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<tr>
<td>MAC 2311* or MAC 2253</td>
<td>4/3</td>
<td>STAT 2023</td>
<td>3</td>
</tr>
<tr>
<td>EUH 2000 or AMH 2010</td>
<td>3</td>
<td>or CGS 1060C</td>
<td>4</td>
</tr>
<tr>
<td>or WOH 2012 or HUM 2210</td>
<td>3</td>
<td>EUH 2001</td>
<td></td>
</tr>
<tr>
<td>or AMH 2020 or HUM 2230 or WHO 2022</td>
<td></td>
<td>or SLS 2311C*</td>
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</table>

Plan your required 9 summer hours into your course of study.

**Junior Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>17 hrs</th>
<th>Spring</th>
<th>6/17 hrs</th>
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<tr>
<td>PCB 3522</td>
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<td>PCB 4234</td>
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<tr>
<td>Restrictive Elective</td>
<td>3</td>
<td>PCB 4239 &amp; PCB 3233L</td>
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<tr>
<td>PHY 2053C or PHY 2048* and 2048L</td>
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<td>PHY 2045C*</td>
<td>4</td>
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<tr>
<td>BSC 2011C</td>
<td>4</td>
<td>or PHY2040, 2049L</td>
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<tr>
<td>ECO 2013 or POS 2041</td>
<td>3</td>
<td>Restricted Elective</td>
<td>3/4</td>
</tr>
<tr>
<td>*Students electing to enroll in the PHY2048/2049 sequence must plan to accommodate MAC 2311/2312 as prerequisites.</td>
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</table>

**Senior Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>15/16 hrs</th>
<th>Spring</th>
<th>12/15 hrs</th>
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</thead>
<tbody>
<tr>
<td>MCB 4414</td>
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<td>Restricted Elective</td>
<td>3/4</td>
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<tr>
<td>BCH 4053</td>
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<td>Restricted Elective</td>
<td>3/4</td>
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<tr>
<td>Restricted elective</td>
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<td>or SPC 1016</td>
<td>3</td>
</tr>
<tr>
<td>Restricted elective</td>
<td>3</td>
<td><strong>Historical Foundations Group</strong></td>
<td>*recommend SPC 1016</td>
</tr>
<tr>
<td>A course from Cultural and Historical Foundations Group</td>
<td>3</td>
<td></td>
<td></td>
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</tbody>
</table>

**Admission Requirements**

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System.
- Students should consult with a departmental advisor and the Prehealth Professions Advisement Office in HPA2 0124.
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours.

1. **UCF General Education Program** (38-39 hrs)

(Note: Certain courses must be selected in GEP for this major, bringing the total GEP hours to more than 36.)

- A. Communication Foundations
  - Select ENC 1101, ENC 1102
  - Prefer SPC 1016 Tech Presentations
- B. Cultural Historical Foundations
- C. Mathematical Foundations
- D. Social Foundations
- E. Science Foundations
  - Select BSC 2010C
  - Select CHM 2045C

2. **Common Program Prerequisites** (16 hrs)

- BSC 2010C Biology I
- BSC 2011C Biology II
- CHM 2045C, 2046, General Chemistry I, II, + Lab
- CHM 2210, 2211, Organic Chemistry I, II, + Lab
- MAC 2311 Calculus with Analytical Geometry I
- GEP

3. **Core Requirements** (35 hrs)

- **Life Sciences**
  - MCB 3020C General Microbiology
  - MCB 4414 Microbial Metabolism
  - PCB 4239, 3233L Molecular Immunology + Immunology Lab
  - PCB 3522, 4524 Molecular Biology I, II
  - SLS 2311C Selected Medical Careers
- **Chemistry**
  - BCH 4053 Biochemistry I
  - PHY 2053C, 2054C College Physics I, II
  - or 2048, 2049C
- **Math**, **Statistics, Computer**
  - MAC 2311 or MAC 2253
  - STA 2023 or CGS 1060C

- **物理**
  - **Math**, **Statistics, Computer**
  - MAC 2311 or MAC 2253
  - STA 2023 or CGS 1060C

- **Students interested in pursuing graduate or professional education are encouraged to select the following courses.**
- **Physics**
  - BCH 4053 Biochemistry I
  - PHY 2053C, 2054C College Physics I, II
  - or 2048, 2049C
- **Math**, **Statistics, Computer**
  - MAC 2311 or MAC 2253
  - STA 2023 or CGS 1060C

**4. Upper Division Restricted Electives** (19 hrs min)

(Seven courses, no more than two may be taken outside the Molecular Biology and Microbiology Department and at least two must be a laboratory course. No more than two may be MLS courses. Enrollment in some MLS courses is restricted. Check with advisor before enrollment. Only three hours of Honors thesis will count towards restrictive elective requirement.)

- **Students in the preprofessional concentration of the Molecular Biology and Microbiology program are recommended to choose from the following restricted electives:**
- BCH 4054 Biochemistry II
- MCB 3203, 3203L Pathogenic Microbiology + Lab
- PCB 3063 Genetics
- MCB 4312 Molecular Biotechnology
- MCB 4503C Virology
- MCB 4970H Honors Thesis
- MCB 5205 Infectious Process
- MCB 5225 Molecular Biology of Disease
- MLS 3305 Hematology
- 3 hrs

**Molecular Biology and Microbiology-Preprofessional Concentration (B.S.)**

**Burnett College of Biomedical Sciences**

HPA2 335, 407-823-5932

http://www.biomed.ucf.edu

**Chair:** P. E. Kolattukudy
MLS 4334  Hemostasis  3 hrs
MLS 4430C  Clinical Parasitology  2 hrs
MLS 4505C  Immunodiagnostics  3 hrs
PCB 3703C  Human Physiology  4 hrs
PCB 4XXX  Genetics II  3 hrs
PCB 4805  Endocrinology  3 hrs
PCB 5238  Immunobiology  3 hrs
ZOO 3703C  Human Gross Anatomy  2 hrs
ZOO 3733C  Human Anatomy  4 hrs
ZOO 4603C  Vertebrate Embryology  5 hrs
ZOO 4704C  Clinical Neuroanatomy and Neuroscience  4 hrs
ZOO 4734  Neurobiology  3 hrs
ZOO 4753C  Vertebrate Histology  4 hrs
ZOO 4XXX  Human Clinical Embryology  3 hrs

5. Departmental Exit Requirements
To be eligible for a major in Molecular Biology and Microbiology, Preprofessional Concentration:

- A student must complete all coursework in the baccalaureate curriculum as shown, and earn a GPA of at least 2.0 for all coursework in the Core and Restricted Electives.
- Independent study, directed research, or similar credit may not be used as a Restricted Elective.
- A minimum of 20 hours must be taken at UCF in the department of the major.
- Students will be required to pass a comprehensive test during their last semester.

6. Electives (variable)

7. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Biology, Chemistry, Medical Lab Science

Related Minors: Biology, Chemistry

Transfer Notes:
Students who begin a two semester sequence course (e.g. General Chemistry) at a community college are strongly encouraged to complete the sequence before transferring. If it will not be possible to complete the sequence at the community college, the student should postpone beginning the course until enrolling at UCF. Students may elect to take Human Anatomy (ZOO 3733C) and Human Physiology (PCB 3703C) at UCF in order to meet the University’s requirement that students complete 48 semester hours of upper division (3000/4000 level) credit. Students meeting the Human Anatomy and Physiology I & II requirement at the community college (lower division) level must take an additional 8 hours of upper division coursework at UCF.

Honors in the Major

- Application and admission through the department and the Burnett Honors College
- Fulfill University requirements for Honors in the Major and maintain a 3.2 UCF GPA; 3.5 in the major; 3.2 cumulative average for graded upper division courses regardless of the institution
- Complete BSC 3404H “Quantitative Biological Methods” with a grade of B or better (4 credits)
- Complete MCB 4970H “Honors Thesis” with a grade of B or better and successfully complete the oral defense of the Honors Thesis

(3 credits)

Tentative Course Schedule for Entering Freshmen

Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>13 hrs</th>
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<tr>
<td>ENC 1101</td>
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<td>ENC 1102</td>
<td>3</td>
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<td>PSY 2012 or SYG 2000</td>
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<td>SLS 2311C</td>
<td>2</td>
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<tr>
<td>or ANT 2000</td>
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<td>CHM 2046</td>
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<tr>
<td>or CHM 2045C</td>
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<td>BSC 2010C</td>
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</tr>
<tr>
<td>or MAC 1105 or elective</td>
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<td>MAC 1114 or elective</td>
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Sophomore Year

<table>
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<tr>
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<th>Spring</th>
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<tr>
<td>CHM 2210</td>
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<td>CHM 2211</td>
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</tr>
<tr>
<td>PCB 3522</td>
<td>3</td>
<td>PCB 2211L</td>
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<td>or MAC 2211* or MAC 2253</td>
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<td>STAT 2023 or CGS 1060C</td>
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<tr>
<td>or EUH 2000 or AMH 2010</td>
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<td>BSC 3403</td>
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<td>EUH 2001 or AMH 2020</td>
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<tr>
<td>or HUM 2230 or WHO 2022</td>
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Plan your required 9 summer hours into your course of study

Junior Year

<table>
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<th>Fall</th>
<th>17 hrs</th>
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<tr>
<td>PCB 3522</td>
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<td>PCB 4824</td>
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<td>Restricted Elective</td>
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<td>PCB 2329 + PCB 3233L</td>
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<td>PHY 2053C or PHY 2048* and 4048L</td>
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<td>PHY 2048C* or PHY 2049, 2049L</td>
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<tr>
<td>or BSC 2011C</td>
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<td>Restricted Elective</td>
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<tr>
<td>ECO 2013 or POS 2041</td>
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<td>Restricted Elective</td>
<td>3/4</td>
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</table>
*Students electing to enroll in the PHY2048/2049 sequence must plan to accommodate MAC 2311/2312 as prerequisites.

Senior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>15/16 hrs</th>
<th>Spring</th>
<th>12/15 hrs</th>
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<tr>
<td>MCB 4414</td>
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<td>BCH 4053</td>
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<td>3/4</td>
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<tr>
<td>Restricted Elective</td>
<td>3</td>
<td>Restricted Elective</td>
<td>3/4</td>
</tr>
<tr>
<td>Restricted Elective</td>
<td>3/4</td>
<td>SPC 1600* or SPC 1016</td>
<td>3</td>
</tr>
<tr>
<td>Cultural/Historical</td>
<td>3</td>
<td>*recommend SPC 1016</td>
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</tbody>
</table>

MOLECULAR BIOLOGY AND MICROBIOLOGY-
UCF/USF Accelerated Medical School Program
(B.S.) (See “Accelerated Programs”)

MOTION PICTURE TECHNOLOGY
(See Film)

MUSIC (B.A.)
College of Arts and Humanities
Department of Music, CNH 205A
http://www.cas.ucf.edu/music/
E-mail: music@mail.ucf.edu
Eugene Montague, E-mail: emontag@mail.ucf.edu, 407-823-1145
Scott Warfield, E-mail: swarfield@mail.ucf.edu, 407-823-1144

Requirements for Admission

- Each student must complete and pass an interview with either a B.A. advisor or the Department Chair.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement; at least 25 hours must be taken from the UCF Music department.
- Each student must complete a faculty approved capstone project.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor for course selections.
- Courses designated in 1 (General Education Program) are usually spread over the full four years.
- Courses designated in 2 (Common Program Prerequisites) are...
U CF Degree Programs

usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   (see General Education Program for detailed information)
   A. Communication Foundations
      9 hrs
      Select one course from 1.B.1 list
   B. Cultural and Historical Foundations
      Select one course from 1.B.1 list
      Select MUX 4212 History and Literature II
      Select one course from 1.B.1 or 1.B.2 list
   C. Mathematical Foundations
      Prefer MGF 1106 Finite Mathematics
      (may substitute a higher level math)
      Prefer STA 1060C Statistics Using Excel
   D. Social Foundations
      6 hrs
      Select primarily from upper-level courses.
   E. Science Foundations
      6 hrs
      Select primarily from upper-level courses, with departmental advice.

2. Common Program Prerequisites (20-24 hrs)
   MUT 1111* Music Theory IA 2 hrs
   MUT 1112* Music Theory IB 2 hrs
   MUT 1241* Ear Training & Sight Singing IA 1 hr
   MUT 1242* Ear Training & Sight Singing IB 1 hr
   MUT 2116* Music Theory IIA 2 hrs
   MUT 2117* Music Theory IIB 2 hrs
   MUT 2246* Ear Training & Sight Singing IIA 1 hr
   MUT 2247* Ear Training & Sight Singing IIB 1 hr
   MUN XXXX 4 hrs
   MVK 1111-2121-3131-4141* Class Piano I-II-III-IV 0-4 hrs
   MUX XXX Secondary Performance 4 hrs
   *See Transfer Notes for possible substitutes

3. Core Requirements (6 hrs)
   MUS 1010 Music Forum (four semesters) 0 hrs
   MUS 3571 20th Century Musical Analysis 3 hrs
   MUX XXX Secondary Performance
   MUN XXXX Ensembles
   MUH 4211 History & Literature I 3 hrs
   MUH 4212 History & Literature II 3 hrs
   MVW 1211* req# 2-CPP 1
   MVK 1111 Class Piano I 1
   MVK 2121 Class Piano II 1
   MUT 1111* Music Theory IA 2
   MUT 1112* Music Theory IB 2
   MUT 1116* Ear Training & Sight Singing IA 1
   MUT 1117* Ear Training & Sight Singing IB 1
   MUT 1241* Ear Training & Sight Singing IA 1
   MUT 1242* Ear Training & Sight Singing IB 1
   MUT 2116* Music Theory IIA 2
   MUT 2117* Music Theory IIB 2
   MUT 2246* Ear Training & Sight Singing IIA 1
   MUT 2247* Ear Training & Sight Singing IIB 1
   MUX XXX Secondary Performance 4 hrs
   *See Transfer Notes for possible substitutes

4. Restricted Electives-Music (12-16 hrs)
   Choose from any MUX 3XXX or 4XXX (No more than 6 of these credits can be taken as MUN courses.)

5. Restricted Electives-Non-Music (9 hrs)
   Select primarily from upper-level courses, with departmental advisor's approval. Prefer courses within related arts and humanities departments including Art, Digital Media, English, Film, Modern Languages, History, Philosophy, and Theater.

6. Electives (variable)
   Select primarily from upper-level courses. A maximum of six (6) hours may be taken in music. All other hours must be taken outside the department.

7. Minor Ensemble Participation
   If minor ensemble is taken at UCF, the two semester hours of credit must be completed in two separate semesters.
   If minor ensemble credits are transferred to UCF, each remaining credit must be taken in a separate semester.
   Minor ensembles include: Brass, Percussion, Piano, String, Vocal (except Opera Workshop), Woodwind, and Jazz Lab.

8. Departmental Exit Requirements (3 hrs)
   MUS 4XXX Capstone/Senior Thesis Project 3 hrs
   Computer Competency met by STA 1060C, or departmental examination

9. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement
   Graduation: Proficiency equivalent to two semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examination for foreign languages may be used to meet the requirement. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

10. University Minimum Exit Requirements
    ■ A 2.0 UCF GPA
    ■ 60 semester hours earned after CLEP awarded
    ■ 48 semester hours of upper division credit completed
    ■ 30 of the last 60 hours of course work must be completed in residence at UCF
    ■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
    ■ Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

   Total Semester Hours Required 120 hrs

Related Programs: Music Education, Music (BM), Theatre, Musical Theatre
Related Minors: Music, Theatre
Transfer Notes:
■ Courses taken at community colleges do not substitute for Upper Division courses
■ Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
■ MUT 1111*, MUT 1112*: May use MUT 1121, MUT 1122. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
■ MUT 1241*, MUT 1242*: May use MUT 1221, MUT 1222, or MUT 1261, MUT 1262 or MUT 1271, MUT 1272.
■ MUT 2116*, MUT 2117*: May use MUT 2126, MUT 2127. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
■ MUT 2246*, MUT 2247*: May use MUT 2226, MUT 2227, or MUT 2276, MUT 2277.
■ MVK 1111, MVK 2121*: May use MVK 1112, MVK 2122 or MVK 1211, MVK 2221

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year
Fall
ENC 1101 Composition I 3
HUM 2100* req# 1B1-GEP 3
MGF 1006* req# 1C1-GEP 3
MUN 3134* req# 2-CPP 1
MUT 1111 Music Theory IA 2
MUT 1241 Ear Train Sing IA 1
MVK 1111 Class Piano I 1
MVW 1211* req# 2-CPP 1
MUS 1010 Music Forum 0

Spring
MUT 1242* Ear Training IA 1
MUT 2116* Music Theory IIA 2
MUT 2247* Ear Training IIB 1
MVK 2121 Class Piano II 1
MVK 1211 Class Piano II 1
MVK 2125 Class Piano II 1
MVW 1211* req# 2-CPP 1
MUS 1010 Music Forum 0

Sophomore Year
Fall
POS 2041* req# 1D1-GEP 3
PSC 1121* req# 1E1-GEP 3
MNU 3134* req# 2-CPP 1
MUT 2116 Music Theory IIA 2
MVK 1111 Class Piano I 1
MVW 1211* req# 2-CPP 1
MUS 1010 Music Forum 0

Spring
ANT 2000* req# 1B2-GEP 3
MUT 1242* Ear Training IA 1
MUT 2247* Ear Train Sing IB 1
MVK 1121 Class Piano IV 1
MVW 1211* req# 2-CPP 1
MUS 1010 Music Forum 0

Junior Year
Fall
SPC 1600* req# 1A3-GEP 3
MUT 2246 Ear Train Sing IIA 1
MVW 1211* req# 2-CPP 1
MVK 1111 Class Piano I 1
MVW 1211* req# 2-CPP 1
MUS 1010 Music Forum 0

Spring
MUT 1242* Ear Training IA 1
MUT 2116* Music Theory IIA 2
MUT 2247* Ear Train Sing IB 1
MVK 1121 Class Piano IV 1
MVW 1211* req# 2-CPP 1
MUS 1010 Music Forum 0

212 UNIVERSITY OF CENTRAL FLORIDA 2006-2007 Undergraduate Catalog
Admission Requirements - Music Education-Pending

- Audition. To be accepted into Music Education-Pending, a student must demonstrate advanced proficiency by performing compositions representing a variety of musical periods (baroque, classical, romantic, contemporary).
- Memorization is required for pianists and vocalists.
- Accompanists are provided by special request only.
- Each candidate must bring his/her own audition music.
- Memorization is required for pianists and vocalists.
- The department will only provide large instruments such as a tuba, string bass, or timpani for these auditions.
- The audition will serve as a placement exam for accepted candidates.
- Demonstrate professional, vocal, and aural skill proficiency in an interview with Music Education faculty.

Admission Requirements

- Music Education (Professional Program) Students who wish to be accepted into the Music Education Professional Program must complete the following requirements:
  
  - Have a minimum overall GPA of 2.5 and a grade of "C" (2.0) or better in each performance, education, and music education course.
  
  - Have on file in the University admissions office passing scores on all 4 parts of the College Level Academic Skills Test (CLAST) or the General Knowledge Test of the Florida Teacher Competency Examination.
  
  - Must meet the College of Education’s requirements for admission to Internships I and II (see College of Education, Office of Clinical Experiences).
  
  - Pass the Music Education Proficiency (taken during completion of Performance II)

Note: Students who change degree programs and select this major must adopt the most current catalog.

Degree Requirements

**1. UCF General Education Program** (36 hrs)

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<th>Hours</th>
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<td>Composition I</td>
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<tr>
<td>ENC 1102</td>
<td>Composition II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPC 1600</td>
<td>Fundamentals of Oral Communication</td>
<td>3 hrs</td>
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<th>Course Title</th>
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<td>ANH 2010</td>
<td>U.S. History 1492-1877</td>
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<td>ANH 2020</td>
<td>U.S. History 1877-Present</td>
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<tr>
<td>MUY 4212</td>
<td>History and Literature II</td>
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<td>STA 1060C</td>
<td>Basic Statistics Using Excel</td>
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<td>STA 2014C</td>
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<tr>
<td>POS 2041</td>
<td>American National Government</td>
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<tr>
<td>PSY 2012</td>
<td>General Psychology</td>
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<tr>
<td>Select one:</td>
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**2. Common Program Prerequisites** (19 hrs)

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tr>
<td>ENC 1102</td>
<td>Composition II</td>
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<tr>
<td>PCP 1600</td>
<td>Fundamentals of Oral Communication</td>
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<tr>
<td>PHI 2010</td>
<td>Introduction to Philosophy</td>
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<tbody>
<tr>
<td>MUY 4212</td>
<td>History and Literature II</td>
<td>3 hrs</td>
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<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
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<tr>
<td>MGF 1106</td>
<td>Finite Mathematics</td>
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<td>STA 1060C</td>
<td>Basic Statistics using Excel</td>
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<tr>
<td>STA 2014C</td>
<td>Principles of Statistics</td>
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**3. Other Program Prerequisites** (27 hrs)

<table>
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<tr>
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<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MUN XXXX</td>
<td>Major Ensembles (4 semesters)</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MUN 1111</td>
<td>Music Theory IA</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUN 1112</td>
<td>Music Theory IB</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUN 2115</td>
<td>Music Theory IIA</td>
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<tr>
<td>MUN 2117</td>
<td>Music Theory IIB</td>
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<tr>
<td>MUN 1241</td>
<td>Ear Training &amp; Sight Singing IA</td>
<td>1 hr</td>
</tr>
<tr>
<td>MUN 1242</td>
<td>Ear Training &amp; Sight Singing IB</td>
<td>1 hr</td>
</tr>
<tr>
<td>MUN 2246</td>
<td>Ear Training &amp; Sight Singing IIA</td>
<td>1 hr</td>
</tr>
<tr>
<td>MUN 2247</td>
<td>Ear Training &amp; Sight Singing IIB</td>
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</tr>
<tr>
<td>MVK 1111</td>
<td>Class Piano I</td>
<td>1 hr</td>
</tr>
<tr>
<td>MVK 2112</td>
<td>Class Piano II</td>
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</tr>
<tr>
<td>MVK 3131</td>
<td>Class Piano III</td>
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</tr>
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<td>MVK 4141</td>
<td>Class Piano IV</td>
<td>1 hr</td>
</tr>
<tr>
<td>MVX XXXX</td>
<td>Performance (4 semesters)</td>
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**4. Core Requirements** (37 hrs)

<table>
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<tr>
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<tr>
<td>MUN XXXX</td>
<td>Major Ensembles (2 semesters)</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUS 1010</td>
<td>Music Forum (6 semesters)</td>
<td>0 hrs</td>
</tr>
<tr>
<td>MV XXXX</td>
<td>Performance (2 semesters)</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MUG 3104</td>
<td>Basic Conducting</td>
<td>2 hrs</td>
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<tr>
<td>MUG 4211</td>
<td>History &amp; Literature I</td>
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</tr>
<tr>
<td>MUG 4212</td>
<td>History &amp; Literature II</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUE 2440</td>
<td>String Techniques</td>
<td>1 hr</td>
</tr>
<tr>
<td>MUE 2450</td>
<td>Woodwind Techniques</td>
<td>1 hr</td>
</tr>
<tr>
<td>MUE 2460</td>
<td>Brass Techniques</td>
<td>1 hr</td>
</tr>
<tr>
<td>MUE 2470</td>
<td>Percussion Techniques</td>
<td>1 hr</td>
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<tr>
<td>EDF 4214</td>
<td>Classroom Learning Principles</td>
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<tr>
<td>EDF 4603</td>
<td>Analysis of Critical Issues in Education</td>
<td>3 hrs</td>
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<tr>
<td>EDG 4323</td>
<td>Professional Teaching Practices</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TSL 4080</td>
<td>Teaching LEP Children</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RED 4043</td>
<td>Teaching Reading in the Content Area</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ESE 3940</td>
<td>Internship I - Secondary</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ESE 4311</td>
<td>Elementary School Music Methods</td>
<td>2 hrs</td>
</tr>
<tr>
<td>ESE 4330</td>
<td>Secondary School Music Methods</td>
<td>2 hrs</td>
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**5. Special Requirements** (15 hrs)

Complete one program:

**Program A - Instrumental**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVV 1111</td>
<td>Class Voice or Orchestral</td>
<td>0-1 hr</td>
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<tr>
<td>MUG 3302</td>
<td>Instrumental Conduct</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUE 4480C</td>
<td>Marching Band Techniques</td>
<td>1 hr</td>
</tr>
<tr>
<td>ESE 4943</td>
<td>Internship II - Secondary</td>
<td>12 hrs</td>
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</table>

**Program B Choral**
6. Internships

Internship I: Students must have on file in the University admissions office passing scores on 4 parts of the CLAST, and have passed 4 of the 5 Music proficiency/comprehensive exams (including the Music Education) before enrolling in Internship I. Students are assigned to a school with certified Supervising Teachers under the direction of a University Coordinator. During the semester, students spend two full days per week (Tuesday and Thursday) in the field with half the time in an Elementary setting and half in a Secondary school setting. Components of the experience include directed observation, collaborative planning, guided participation, and collaborative evaluation. Students are expected to provide their own transportation to assigned locations.

Internship II: Students must have on file in the University admissions office passing scores on 4 parts of the CLAST, successfully completed Internship I; and have passed all proficiency/comprehensive exams before enrolling in Internship II. Students are assigned to a school with certified Supervising Teachers under the direction of a University Coordinator five days a week for the entire semester, normally during the student's last semester. Students are permitted to enroll in other classes only with the consent of the departmental advisor. The semester of student teaching is divided into four types of activities: observing, assisting, teaming, and teaching. Student teachers become involved with children as rapidly as possible, and gradually assume full responsibility for the classroom to which they have been assigned. As the experience draws to an end, the process should be reversed and supervising teachers take back their classes at convenient program breaks. Students are expected to provide their own transportation to assigned locations.

7. Special Non. - Course Requirements

Note: Contact the Music Education Advisor for details

- Music Education Proficiency Exam - take during the completion of the fourth semester of study, or after completing Performance II, Ensemble Participation

Ensemble Participation
- Selected from University Chorus, Symphony Orchestra, Concert Band, Marching Band, and Wind Ensemble. Four hours of Jazz Lab may be used as a Major Ensemble credit
- Ensemble assignment is by the Ensemble directors
- Transfer students must take Major Ensemble during each of their remaining semesters, except when enrolled in Internship II
- Native UCF students must take each Ensemble credit in a separate semester
- Students taking a Performance course must concurrently take an appropriate major ensemble if accepted

Recitals
- Students must complete a faculty-approved public recital (optional for students in the Elementary School Music Specialization)
- Maintain a Professional Portfolio. The portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.

CMENC Membership
- Active participation in CMENC is expected

Music Education Forums
- Attendance at all Music Education Forums (except during Internship I and II) is expected

Advising
- Consult with the music education advisor for course selection

Public School Partnerships
- Students are expected to be in public schools on a regular basis. Students are expected to observe, assist, and teach in variety of grade levels and settings (e.g., urban, suburban, general, choral, instrumental) before taking Internship I.

8. Departmental Exit Requirements

- Pass the Professional Education and Subject Area subtests of the Florida Teacher Certification Examination.
- A minimum GPA of 2.5 is required in all courses within the major.
- A grade of “C” (2.0) or better in each music course.
- A grade of “B” (3.0) or better in each performance, education, and music education course.
- Computer competency is met through MUS 2360C.
- Departmental Residency Requirement: at least 25 hours must be taken from the UCF Music Department. In addition, music education students must complete their last two semesters of required performance, recital, and Internship II while attending UCF

9. Foreign Language Requirements (0-8 hrs)

Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation

Graduation: None

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)
- A minimum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits admitted

11. Total Semester Hours Required 134 hours

Related Programs: Music, Music (BFA), Theatre

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- Students transferring to UCF must pass the Music Education Proficiency in order to be accepted as a Music Education major
- Students transferring from a Florida Public Community College are cautioned to pay careful attention to the General Education and Common Program Prerequisites sections because the revision of State Board of Education Rule 6A-5.066 has made programs highly prescriptive, which may result in additional coursework to satisfy degree requirements.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- MUE 2040*: May use equivalent course or proficiency
- MUP 1111*, MUP 1112*: May use MUP 1121, 1122. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective
- MUP 1241*: MUP 1242*: May use MUP 1221, 1222, or MUP 1261, 1262, or MUP 1271, 1272
- MUP 2116*, MUP 2117*: May use MUP 2126, 2127. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective
- MUP 2246*, MUP 2247*: May use MUP 2226, 2227, or MUP 2266, 2267, or MUP 2276, 2277
- MVK 1111, 2121*: May use 1112, 2122 or MVK 1211, 2221

Note: Education majors are required to take six hours (in addition to
3. Core Requirements (18 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVK 3131</td>
<td>Class Piano III</td>
<td>1 hr</td>
</tr>
<tr>
<td>MVK 4141</td>
<td>Class Piano IV</td>
<td>1 hr</td>
</tr>
<tr>
<td>MUS 1010</td>
<td>Music Forum (eight semesters)</td>
<td>0 hrs</td>
</tr>
<tr>
<td>MUT 3571</td>
<td>20th Century Musical Analysis</td>
<td>3 hrs</td>
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<tr>
<td>MVB/MVK/MVP/</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MVS/SMV/MVV</td>
<td>Performance or composition (four including two seminars of Level IV)</td>
<td>8 hrs</td>
</tr>
<tr>
<td>MUN XXXX</td>
<td>Major Ensembles</td>
<td>2 hrs</td>
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(Piano students take MUN 3453, guitar students take MUN 3483)

4. Specialty Requirements: (24 hrs)

<table>
<thead>
<tr>
<th>Area</th>
<th>Courses</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Piano</td>
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<tr>
<td></td>
<td>MUL 3400 Piano Literature I</td>
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<tr>
<td></td>
<td>MUL 3401 Piano Literature II</td>
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<tr>
<td></td>
<td>MVK 4640 Piano Pedagogy I</td>
<td>1 hr</td>
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<tr>
<td></td>
<td>MVK 4641 Piano Pedagogy II</td>
<td>1 hr</td>
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<td></td>
<td>Ensembles</td>
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</tr>
<tr>
<td></td>
<td>Major Not required</td>
<td>0 hrs</td>
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<td></td>
<td>Minor-MUN 3453 Piano Ensemble</td>
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<td></td>
<td>Restricted Electives</td>
<td>16 hrs</td>
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<tr>
<td>Guitar</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>MUL 3432 String Literature</td>
<td>2 hrs</td>
</tr>
<tr>
<td></td>
<td>MVS 4640 String Pedagogy</td>
<td>2 hrs</td>
</tr>
<tr>
<td></td>
<td>Ensembles</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Major Not required</td>
<td>0 hrs</td>
</tr>
<tr>
<td></td>
<td>Minor-MUN 3483 String Ensemble</td>
<td>2 hrs</td>
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<td></td>
<td>Restricted Electives</td>
<td>18 hrs</td>
</tr>
<tr>
<td>Voice</td>
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<tr>
<td></td>
<td>FRE 1005 French Diction</td>
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<tr>
<td></td>
<td>GER 1005 German Diction</td>
<td>1 hr</td>
</tr>
<tr>
<td></td>
<td>ITA 1005 Italian Diction</td>
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<tr>
<td></td>
<td>MUV 4640 Voice Pedagogy I</td>
<td>1 hr</td>
</tr>
<tr>
<td></td>
<td>MUV 4641 Voice Pedagogy II</td>
<td>1 hr</td>
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<td></td>
<td>MUL 3603 Amer./English Song Literature</td>
<td>1 hr</td>
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<tr>
<td></td>
<td>MUL 3604 German Song Literature</td>
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<td></td>
<td>MUL 3605 French Song Literature</td>
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<td>Ensembles</td>
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<tr>
<td></td>
<td>Major-MUN 3313 University Chorus</td>
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<td>Minor-MUN XXXX</td>
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<td></td>
<td>Restricted Electives</td>
<td>10 hrs</td>
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<tr>
<td>Woodwinds</td>
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<tr>
<td></td>
<td>MUN XXXX Major Ensemble</td>
<td>2 hrs</td>
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<tr>
<td></td>
<td>MUN XXXX Minor Ensemble</td>
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</tr>
<tr>
<td></td>
<td>MUL 3441 Woodwind Literature</td>
<td>2 hrs</td>
</tr>
<tr>
<td></td>
<td>MUV 3630 Woodwind Pedagogy</td>
<td>2 hrs</td>
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<td></td>
<td>Restricted Electives</td>
<td>14 hrs</td>
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<tr>
<td>Brass</td>
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<tr>
<td></td>
<td>MUN XXXX Major Ensemble</td>
<td>2 hrs</td>
</tr>
<tr>
<td></td>
<td>MUN XXXX Minor Ensemble</td>
<td>4 hrs</td>
</tr>
<tr>
<td></td>
<td>MUL 3442 Brass Literature</td>
<td>2 hrs</td>
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<td>MVB 4640 Brass Pedagogy</td>
<td>2 hrs</td>
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<tr>
<td></td>
<td>Restricted Electives</td>
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<tr>
<td>Percussion</td>
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<tr>
<td></td>
<td>MUN XXXX Major Ensemble</td>
<td>2 hrs</td>
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<tr>
<td></td>
<td>MUN XXXX Minor Ensemble</td>
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<tr>
<td></td>
<td>MUL 3463 Percussion Literature</td>
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<td>MVP 3630 Percussion Pedagogy</td>
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<tr>
<td>Strings</td>
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<tr>
<td></td>
<td>MUN XXXX Major Ensemble</td>
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<tr>
<td></td>
<td>MUN XXXX Minor Ensemble</td>
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<tr>
<td></td>
<td>MUL 3432 Strings Literature</td>
<td>2 hrs</td>
</tr>
<tr>
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<td>MVS 4640 Strings Pedagogy</td>
<td>2 hrs</td>
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<td></td>
<td>Restricted Electives</td>
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</tr>
<tr>
<td>Composition</td>
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<td></td>
<td>MUS 3080 Counterpoint</td>
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<td>MUS 3581 Arranging and Composing Music</td>
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<td>MUG 3302 Instrumental Conducting &amp; Materials</td>
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<td></td>
<td>MUC 3311 MIDI Sequencing I</td>
<td>3 hrs</td>
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<td>MUC 4441 MIDI Sequencing II</td>
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<td></td>
<td>MUS 4347C Digital Notation</td>
<td>3 hrs</td>
</tr>
<tr>
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<td>MUS 3170 Jazz Theory I</td>
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<tr>
<td></td>
<td>Ensembles</td>
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</tr>
<tr>
<td></td>
<td>Major</td>
<td>4 hrs</td>
</tr>
<tr>
<td></td>
<td>Restricted Electives</td>
<td>0 hrs</td>
</tr>
</tbody>
</table>

5. Restricted Electives (See above)

- Any secondary performance course not in area of major instrument or

Audition Requirements for Admission

- Each student must audition and demonstrate advanced proficiency by performing compositions representing a variety of musical periods
- Memorization is required for pianists and vocalists
- Accompanists are provided by special request only
- Each candidate must bring his/her own audition music
- The department will only provide large instruments such as a tuba, string bass, or timpani for these auditions
- The audition will serve as a placement examination for accepted candidates
- In addition, composition students must submit a portfolio of compositions representing works in small and/or large forms
- The audition and examination scores will serve as a placement examination for accepted candidates

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- At least 65 hours of credit must be earned in music courses
- Departmental Residency Requirement: at least 30 hours must be taken from the UCF Music department
- Performance and composition students must present two faculty-approved public recitals
- Students should consult with a departmental advisor for course selection
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)

<table>
<thead>
<tr>
<th>Area</th>
<th>Courses</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>Select SPC 1600</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one course from 1.B.1 list</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>Select MUG 4212 History and Literature II</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>Select one course from 1.B.1 or 1.B.2 list</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prefer STA 1060C Statistics Using Excel (may substitute a higher level math)</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>Prefer STA 1000C Statistics Using Excel</td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one course from 1.E.1 list</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>Select one course from 1.E.2 list</td>
<td>3 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one course from 1.E.1 list</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>Select one course from 1.E.2 list</td>
<td>3 hrs</td>
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2. Common Program Prerequisites (24 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUT 1111*</td>
<td>Music Theory IA</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUT 1121*</td>
<td>Music Theory IB</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUT 1241*</td>
<td>Ear Training &amp; Sight Singing IA</td>
<td>1 hr</td>
</tr>
<tr>
<td>MUT 1242*</td>
<td>Ear Training &amp; Sight Singing IB</td>
<td>1 hr</td>
</tr>
<tr>
<td>MUT 2116*</td>
<td>Music Theory IIA</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUT 2117*</td>
<td>Music Theory IIB</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUT 2240*</td>
<td>Ear Training &amp; Sight Singing IIA</td>
<td>1 hr</td>
</tr>
<tr>
<td>MUT 2247*</td>
<td>Ear Training &amp; Sight Singing IIB</td>
<td>1 hr</td>
</tr>
<tr>
<td>MUN XXXX</td>
<td>Major Ensemble (four semesters)</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

(Piano students take MUN 3453, guitar students take MUN 3483)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVB/MVK/MVP/</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MVS/SMV/MVV</td>
<td>Perl or comp (four semesters)</td>
<td>8 hrs</td>
</tr>
<tr>
<td>MVK 1111-2121*</td>
<td>Class Piano I-II</td>
<td>2 hrs</td>
</tr>
</tbody>
</table>

*See Transfer Notes for possible substitutes
Any MUC, MUE, MUG, MUH, MUL, MUN, MUS, MUT courses numbered 3000 or higher.

6. Special Non-Course Requirements

Major Ensemble Participation
- Selected from University Chorus, Symphony Orchestra, Concert Band, Symphonic Wind Ensemble, and Marching Band. Four hours of Jazz Ensemble may be used as Major Ensemble credit.
- Ensemble assignment is by the Ensemble directors.
- Transfer students must take Major Ensemble during each of their remaining semesters.
- Native UCF students must take each Major Ensemble credit in a separate semester.
- Students taking a course in Performance must concurrently take a major ensemble appropriate to their principal instrument or voice.

Minor Ensemble Participation
- If Minor Ensemble is taken at UCF, the four semester hours of credit must be spread over at least three separate semesters.
- If Minor Ensemble credits are transferred to UCF, each remaining credit must be taken in a separate semester.
- Minor Ensembles include: Brass, Percussion, Piano, String, Vocal (except Opera Workshop), Woodwind, Jazz, Women’s and Early Music Ensemble.

Durations
- Each student must perform two faculty-approved public recitals: a junior recital of 30 minutes length and a senior recital of 45 minutes length. Composition majors must present original musical compositions by the student.

7. Departmental Exit Requirements
- Earn a grade of “C” (2.0) or better in each Music course.
- Computer Competency met by CGS 1060C, or departmental examination.

8. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement.
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

10. University Minimum Exit Requirements
- A 2.0 UCF GPA.
- 60 semester hours earned after CLEP awarded.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required 120 hours

Related Programs: Music Education, Music (BA), Theatre
Related Minors: Music, Theatre

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- MUT 1111*, MUT 1112*: May use MUT 1121, 1122. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
- MUT 1241*, MUT 1242*: May use MUT 1221, 1222, or MUT 1261, 1262 or MUT 1271, 1272.
- MUT 2116*, MUT 2117*: May use MUT 2126, 2127. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
- MUT 2246*, MUT 2247*: May use MUT 2226, 2227, or MUT 2266, 2267, or MUT 2276, 2277.
- MVK 1111, 2121*: May use 1112, 2122 or MVK 1211, 2221

NURSING (B.S.N.)

A. BASIC PROGRAM
(For individuals who are not Registered Nurses)
College of Health and Public Affairs
HPA 1220, 407-823-2744
http://www.coapa.ucf.edu/nursing/
Director: Jean Leuner
Undergraduate Coordinator: Patricia Leli
E-mail: ucfnurse@mail.ucf.edu

Admission Requirements
Acceptance to the university does not constitute admission to the upper division nursing program.

Separate application to the limited access program must be made directly to the School of Nursing prior to February 1 of the year admission is sought for the Orlando Campus and June 1 the prior year for January admission on the Brevard and Daytona Campus (see information on Accelerated Second Degree program for deadline).

Application for admission to the University must also be submitted by the program deadline.

Student must complete all general education, foreign language, and program prerequisite requirements prior to the start of the program. Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Three prerequisite science courses must be completed by the program application deadline.

The School of Nursing has a demanding curriculum. The classes are work-intensive and courses include clinical practice in a variety of settings. Due to this, it is strongly recommended that students be at least one year post high school prior to applying to the basic nursing program. Students with concerns or questions should contact the nursing office for an appointment with a basic faculty advisor.

All applicants must have a minimum overall GPA of 2.80, and complete all program prerequisite courses with a grade of “C” (2.0) or better.

Early acceptance may be offered to First-Time-in-College (FTIC) students during their sophomore year and to students in the Military Enlisted Commissioning Program (MECP). For specific information about early acceptance, contact the School of Nursing.

Graduates are eligible to apply to take the licensing examination for registered nurses (NCLEX). The program is accredited by the Commission on Collegiate Nursing Education and approved by the Florida State Board of Nursing.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General 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 2.5 GPA in the nursing major are required for continuation and graduation from the Nursing Program.
- UCF Residency Requirement: 30 hours.
- Any variation from the stated prerequisites must be approved in writing by the School of Nursing. Petition forms are available in
## 1. UCF General Education Program (36 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit 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>MAC 1105</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select both SYG 2000 and PSY 2012*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select ECO 2013 or ECO 2023 or POS 2041</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## 2. Common Program Prerequisites (22 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 2012</td>
<td>General Psychology**</td>
<td></td>
</tr>
<tr>
<td>SYG 2000</td>
<td>Sociology**</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MCB 2004C</td>
<td>Health Microbiology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHM 1032L</td>
<td>General Chemistry and lab**</td>
<td></td>
</tr>
<tr>
<td>ZOO 3733C</td>
<td>Human Anatomy</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PCB 3703C</td>
<td>Human Physiology**</td>
<td>4 hrs</td>
</tr>
<tr>
<td>STA 2014C or 2023</td>
<td>Principles of Statistics**</td>
<td></td>
</tr>
<tr>
<td>SOW 5104</td>
<td>Assessing Human Development or</td>
<td></td>
</tr>
<tr>
<td>DEP 2004</td>
<td>Developmental Psychology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HUN 301L</td>
<td>Human Nutrition</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

* May take Anatomy and Physiology sequence of six-eight total credits.

**Also meets General Education Requirements. The first semester of a two semester general chemistry course does not meet requirement.

## 3. Core Requirements

### Students currently enrolled in the nursing program will complete the following core requirements (63 hrs):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 306L</td>
<td>Therapeutic Interv. for Health Prof.</td>
<td>1 hr</td>
</tr>
<tr>
<td>NUR 306S</td>
<td>Health Assessment</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 306SL</td>
<td>Health Assessment Lab</td>
<td>1 hr</td>
</tr>
<tr>
<td>NUR 316S</td>
<td>Nursing Research</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 322S</td>
<td>Promoting Physical &amp; Mental Health</td>
<td>5 hrs</td>
</tr>
<tr>
<td>NUR 323S</td>
<td>Clin Pract in Prom Phys/Mental Health</td>
<td>4 hrs</td>
</tr>
<tr>
<td>NUR 361S</td>
<td>Promoting Healthy Families</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 361SL</td>
<td>Clinical Pract in Prom Healthy Fam</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 361T</td>
<td>Promoting Healthy Communities</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 382S</td>
<td>Role of the Professional Nurse</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 312S</td>
<td>Pathophysiology &amp; Pharmacology</td>
<td>5 hrs</td>
</tr>
<tr>
<td>NUR 452S</td>
<td>Nursing Intervention in Mental illness</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 452SL</td>
<td>Clinical Practice w/ Mentally Ill Client</td>
<td>1 hr</td>
</tr>
<tr>
<td>NUR 453S</td>
<td>Community as the Continuum of Care</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 453SL</td>
<td>Clinical Pract in Comm.-Orient Nrsng</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 474S</td>
<td>Nursing Care of Clients w/Acute Ill.</td>
<td>4 hrs</td>
</tr>
<tr>
<td>NUR 474SL</td>
<td>Clinical Practice in Acute Ill.</td>
<td>4 hrs</td>
</tr>
<tr>
<td>NUR 482S</td>
<td>Leadership &amp; Management Principles</td>
<td>3 hrs</td>
</tr>
<tr>
<td>*NUR 494SL</td>
<td>Nursing Practicum</td>
<td>4 hrs</td>
</tr>
<tr>
<td>NUR 483S</td>
<td>Role Transition</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 487S</td>
<td>Health Care Issues, Policy, &amp; Econ</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4XXX</td>
<td>Nursing Elective</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Any variation from the above must be approved by the School of Nursing.

*Some NUR 494SL placements require an elective to be taken concurrently.

### Students admitted as of fall 2006 will be enrolled in the following core requirements (64 hrs):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 306S</td>
<td>Health Assessment</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 306SL</td>
<td>Health Assess Lab</td>
<td>1 hr</td>
</tr>
<tr>
<td>NUR 382S</td>
<td>Role of Professional Nurse</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 3930 ST</td>
<td>Essentials of Nursing Practice</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 3930L ST</td>
<td>Essentials of Nursing Practice Clinical</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 3930 ST</td>
<td>Community Health Nursing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 3930L ST</td>
<td>Community Health Nursing Clinical</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR XXXX</td>
<td>Pathophysiology for Nurses</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 3930 ST</td>
<td>Pharmacology for Nurses</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 3930 ST</td>
<td>Nursing Care of the Adult I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 3930L ST</td>
<td>Nursing Care of the Adult I Clinical</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 3930 ST</td>
<td>Nursing Care of Families</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 3930L ST</td>
<td>Nursing Care of Families Clinical</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 316S</td>
<td>Nursing Research</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR XXXX</td>
<td>Nursing Elective</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4837</td>
<td>Nursing Care Issues, Policy, and Economics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4932 ST</td>
<td>Nursing Care of the Adult II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4932L ST</td>
<td>Nursing Care of the Adult II Clinical</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4932 ST</td>
<td>Psychiatric Mental Health Nursing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4932L ST</td>
<td>Psychiatric Mental Health Nursing Clinical</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 4932 ST</td>
<td>Leadership, Management and Role Transition</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4932 ST</td>
<td>Introduction to Critical Care</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4932 ST</td>
<td>Public Health Nursing</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 4932L ST</td>
<td>Public Health Nursing Clinical</td>
<td>1 hr</td>
</tr>
<tr>
<td>NUR 4959</td>
<td>Nursing Practicum</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

Any variation from the above must be approved by the school of Nursing.

### 4. Upper Division Restricted Electives (3 hrs)

Nursing Elective:

Any School of Nursing Elective approved by advisor

### 5. Departmental Continuation and Exit Requirements

Completion of all courses in major with a grade of “C” (2.0) or better

UCF GPA of 2.5 or above

School of Nursing GPA of 2.5 or above

### 6. Electives

None

### 7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Note:** A grade of “C” (2.0) or better is required in all prerequisite courses.

## 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### Total Semester Hours Required 121 hours

Related Programs: Health Services Administration, Social Work, all health programs

### Related Minors: Aging Studies Certificate, Psychology, Health Sciences, Health Services Administration

Transfer Notes:

Examples of Community College Equivalent Courses - Prerequisites

- General Psychology (PSY X012) or any General Psychology course
- General Sociology (SYG 2000) or any Intro to Sociology course
- Statistics (STA 2014C or 2023) or any Statistics course
- General Chemistry (CHM 1032L or any other comprehensive chemistry course w/lab)*
- Human Anatomy and Physiology I & II w/lab (BSC 2093/2094 or (BSC X085/X086)
- General Microbiology (MCB 3020C) (MCB X010C) w/lab
- or any Microbiology course w/lab
- Developmental Psychology (DEP 2004) or any Human Growth & Development Across Life Span course
- or any Nutrition course

**Note:** A grade of “C” (2.0) or better is required in all prerequisite courses.

Honors

Honors Option Requires:

- Completion of a three credit directed readings course
- Completion of a three credit thesis course
- Open to students with a minimum 3.5 GPA in Nursing
- Minimum cumulative UCF 3.2 GPA
- Completion of 60 semester hours of college credit, including 12 graded upper division hours at UCF

![UCF Degree Programs](image_url)
Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Freshman Year

Fall 16 hrs
SYG 2000 3
ENC 1101 3
MAC 1105 3
BSC 2010C 4
PSY 2012 3

Spring 14 hrs
CHM 1032L 3/1
ENC 1102 3
STA 2014C or STA 2023 3
ZOO 3733C 4

Sophomore Year

Fall 16 hrs
POS 2041 or ECO 2013 or ECO 2023 3
EHU 2000 or HUM 2210 3
or AMH 2010 or WOH 2012 3
CHM 1032 or PCB 3703C 4
SOW 2104 or (One Course:) 3
DEP 2004 3
HUN 3011 3

Spring 13 hrs
EHU 2001 or HUM 2230 or MCB 2004C 4
or AMH 2020 or WOH 2022

Junior Year

Fall 15 hrs
NUR 3925 2
NUR 3965 2
NUR 3065L 1
NUR 3930 ST 2
NUR 3930L ST 3
NUR 3930 ST 3
NUR 3930 ST 2

Summer C/D 6-9 hrs
NUR 3165 3
NUR 3930 ST and/or 3
NUR 4837 3

Spring 16 hrs
NUR 4932 ST 3
NUR 4932 ST 3
NUR 4932 ST 3
NUR 4932 ST 2
NUR 4932 ST 2
NUR 4837 3
NUR 4932 ST 3

(If not already taken)

Senior Year

Fall 14-17 hrs
NUR 4932 ST 3
NUR 4932 ST 3
NUR 4932 ST 3
NUR 4932 ST 2
NUR 4932 ST 2
NUR 4837 3
NUR 4932 ST 3

NUR 3930L ST 3 NUR 3930L ST 2

Spring 13-16 hrs
NUR 4932 ST 3
NUR 4932 ST 3
NUR 4932 ST 2
NUR 4932 ST 2
NUR 4837 3
NUR 4932 ST 3

(If not already taken)

NURSING (B.S.N.)

B. RN TO BSN PROGRAM

Completion program for individuals who are licensed RN’s.

College of Health and Public Affairs
HPA1 220, 408-823-2744
http://www.cohpa.ucf.edu/nursing/
RN to BSN Coordinator: Linda Hennig
E-mail: ucfnurse@mail.ucf.edu

This program is also currently available online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via distributed learning. For more information, see http://distrib.ucf.edu/home.

Admission Requirements

Limited Access

Acceptance to the university does not constitute admission to the upper division nursing program. Separate application to the limited access program must be made directly to the School of Nursing. All applicants must have:

■ Admission to UCF undergraduate program
■ Graduation from an approved or accredited associate degree or diploma nursing program
■ Current Licensure as an RN (or eligible)
■ Progress toward the UCF general education requirements, an AA degree from a Florida Community College, or eligible for the Statewide Articulated AS-BSN Program (see AS to BS)
■ Completion of all sections of CLAST (or Exempt)

■ A minimum overall GPA of 2.5
■ Completion of program prerequisite courses with at least a grade of “C” (2.0) or better

Degree Requirements

■ Students who change degree programs and select this major must adopt the most current catalog
■ Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education Program requirements
■ Students should consult with a College of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
■ The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities
■ A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the Nursing major are required for continuation in and graduation from the University of Central Florida
■ UCF Residency Requirement: 30 hours
■ The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations 9 hrs
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
D. Social Foundations 6 hrs
Select SYG 2000 or SYG 2010 or SYG 2020 or POS 2041
E. Science Foundations: 6 hrs
Select BSC 210C
Select CHM 1032

2. Common Program Prerequisites 21 hrs

PSY 2012 General Psychology** GEP
SYG 2000 Sociology** GEP
MCB 2004C Health Microbiology 4 hrs
CHM 1032L General Chemistry and lab** GEP
ZOO 3733C Human Anatomy* GEP
PCB 3703C Human Physiology 4 hrs
STA 2014C or STA 2023 Principles of Statistics** GEP
Select one: ECO 2013 or ECO 2023 or POS 2041
D. Social Foundations 6 hrs
Select SYG 2000 or PSY 2012
Select one: ECO 2013 or ECO 2023 or POS 2041
E. Science Foundations: 6 hrs
Select BSC 210C
Select CHM 1032

3. Core Requirements (55 hrs)

NUR 3065 Transitional Concepts in Nursing I 3 hrs
NUR 3065L Health Assessment Lab 1 hr
NUR 3165 Critical Inquiry 3 hrs
NUR 4984 Transitional Concepts in Nursing II 3 hrs
NUR 4636 Community as Continuum of Care 3 hrs
NUR 4636L Clin Pract in Comm-Oriented Nursing 2 hrs
NUR 4827 Leadership and Management Principles 3 hrs
NUR 4837 Health Care Issues, Policy, & Econ 3 hrs
NUR 4821C Practicum & Role Development for RNs 4 hrs

Validation Credit 28 hrs

4. Upper Division Restricted Elective (3 hrs)
NUR XXX Any Nursing Elective 3 hrs

5. Departmental Exit Requirements
Completion of all courses in major with a grade of “C” (2.0) or better
■ UCF GPA of 2.5 or above
■ School of Nursing GPA of 2.5 or above

6. Electives 3 hrs

7. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none
8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs
Related Programs: Health Services Administration, Social Work, All health programs
Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

Sample Plan of Study
Semester I Semester II
NUR 3005 3 NUR 3165 3
UR 3065 2 NUR 4827 3
NUR 3065L 1

Semester III
NUR 4084 3
NUR XXXX (elective) 3

Semester IV Semester V
NUR 4636 3 NUR 4837 3
NUR 4636L 2 NUR 4812C 4

*Elective may be taken at any point.

Progression requirements:
Prior to NUR 3805: RN status or eligible to take NCLEX.
Prior to NUR 3165: Complete NUR 3005 and Statistics course with grade of “C” (2.0) or better.
Prior to NUR 4084:
- Be admitted to the nursing program
- Complete general education requirements or A.A. from a Florida state community college or university (SUS)
- Complete CLAST (or exempt)
- Complete Foreign language admission requirement

Other
Selected courses may be offered and at regional campuses of Daytona and Cocoa.
The RN-BSN coursework is also offered via the Internet. Some on-campus labs and clinical practica may be required. For further information access http://www.cohpa.ucf.edu/nursing/

NURSING ACCELERATED
C. RN TO MSN OPTION
Note: For detailed information about this program, see description in the UCF Accelerated Degree Programs section.

NURSING (B.S.N.)
D. AS TO BSN TRACK
Note: For detailed information about this program, see description in the AS to BS Program section.

ORGANIZATIONAL COMMUNICATION (B.A.)
See Interpersonal/Organizational Communication.

PHILOSOPHY (B.A.)
College of Arts and Humanities
Philosophy Department, CNH 411
http://www.cas.ucf.edu/philosophy
E-mail: philosophy@ucf.edu
Don Jones or Jennifer Mundale, 407-823-2273; Fax: 407-823-6658

Admission Requirements
None

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each required course
- Co-op or internship credit cannot be used in this major without prior departmental approval
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program 36 hrs
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations
   Select HUM 2210 Humanistic Traditions I 3 hrs
   Select HUM 2230 Humanistic Traditions II 3 hrs
   Select PHI 2010 Intro to Philosophy 3 hrs
C. Mathematical Foundations
   Prefer MGF 1106 Finite Mathematics 3 hrs
   (may substitute a higher level math)
   Prefer STA 1060C Statistics Using Excel 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites
None

3. Core requirements* 36 hrs
a. Core (0 hrs)
   HUM 2210 Humanistic Traditions I GEP
   HUM 2230 Humanistic Traditions II GEP
   PHI 2010 Intro to Philosophy GEP
   PHI 3903 Research Methods (3 hrs)
To be completed before the end of Junior year as a prerequisite to enrollment in Senior courses.
   PHI 4938 Senior Research Seminar (3 hrs)
b. Philosophical Foundations: (12 hrs)
   Select 12 hours, including at least three hours from each group:
   Reasoning
   PHI 2011 Philosophical Reasoning
   PHI 2101 Critical Thinking
   PHI 2101 Formal Logic I
   Ethics
   PHI 3670 Ethical Theory
   Knowledge
   PHI 3320 Philosophy of Mind
   PHI 4341 Ways of Knowing
   PHI 4300 Theories of Knowledge
   PHI 4500 Metaphysics
Research Methods
   PHI 3083 Research Methods in Philosophy 6 hrs
   Select two courses:
   PHM 3401 Philosophy of Law
   PHI 3700 Philosophy of Religion
   PHI 4400 Philosophy of Science
   PHI 4420 Philosophy of Social Science
   PHI 3451 Philosophy of Psychology
   PHI 3800 Aesthetics
   Applications (9 hrs)
   Select three courses:
   HUM 4330 Performance Theory
   PHI 3626 Ethics in Science & Technology
   PHI 3022 Sexuality, Gender & Philosophy
   PHI 3033 Philosophy, Religion, and the Environment
   PHI 3638 Ethical Issues in the 21st Century
   PHI 3640 Environmental Ethics
   PHI 3941 Philosophy Practicum
   PHI 4321 Philosophies of Embodiment: Mind/Body/Self
   PHI 4931 Philosophy in the News

4. Electives (12 hrs)
   Select six hours from:
   PHI 4931 Philosophy in the News
   PHI 4937 Senior Research Seminar
   PHI 4938 Senior Research Seminar (3 hrs)
   PHI 4939 Senior Research Seminar

Total Semester Hours Required 120 hrs

To be completed before the end of Junior year as a prerequisite to enrollment in Senior courses.
b. Reasoning (6 hrs)
Take any two of the following courses:
PHI 2101 Philosophical Reasoning
PHI 2108 Formal Critical Thinking
PHI 2647 Logic and Ethics
PHI 3131 Formal Logic II

5. Honors in the Major
Students considering graduate school in philosophy are strongly encouraged to take Honors in the Major. Requirements are as follows:

Core Requirements (36 hrs)
Same requirements as for regular majors but must include PHI 2101 Formal Logic I

Upper division Restricted Electives (6 hrs)
Choose two of the following:
PHH 3100 Ancient Philosophy
PHI 3200 Medieval Philosophy
PHH 3460 Modern Western Philosophy
PHH 3650 Contemporary Philosophy

Same requirements as for regular majors.

Honors Thesis (6 hrs)
PHI 4903H Honors Directed Reading 3 hrs
PHI 4970H Honors Thesis 3 hrs

Additional Requirements:
- Application and admission through the Philosophy Honors Coordinator and the Burnett Honors College
- Fulfill University requirements for Honors in the Major
- Earn a “B” (3.0) or better in both PHI 4903H and PHI 4970H
- Maintain UCF GPA of at least 3.2 and a Philosophy GPA of at least 3.5
- Successful completion and oral defense of Honors thesis

6. Departmental Exit Requirements (3 hrs)
- Either PHI 4970H: Honors Thesis (3 hrs) or PHI 4938 Senior Research Seminar.
- Earn a “C” (2.0) or better in each required course.
- Computer Competency met by PHI 4970H, PHI 4951, or by STA 1060C.
- To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

7. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement.
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

8. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside the department.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Humanities, Humanities - Philosophy, Religion, Pop Culture Track, Religious Studies
Related Minors: Cognitive Sciences, Environmental Studies, Humanities, Philosophy, Religious Studies, Women’s Studies

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:

220 UNIVERSITY OF CENTRAL FLORIDA 2006-2007 Undergraduate Catalog
### Freshman Year

**Fall**
- ENC 1101 Composition I 3
- HUM 2210 Hum Tradition I 3
- MGF 1106** req= 1C1-GEP 3
- PHI 2010 Intro to Phil 3
- SPN 1120* req= Lang/Elec 4

**Spring**
- ENC 1102 Composition II 3
- HUM 2220 Hum Tradition II 3
- STA 1060C* req= 1C2-GEP 3
- PHI 2101* req= 3b-FoundnReasoning 3
- SPN 1121* req= Lang/Elec 4

### Sophomore Year

**Fall**
- BSC 1005* req= 1E2-GEP 3
- MAC 2202* req= 1D2-GEP 3
- PHI 2108 Reasoning 3
- PHH 3100* req= 3c-History 3

**Spring**
- CHM 1202* req= 1E1-GEP 3
- POS 2041* req= 1D1-GEP 3
- PHI 3460* req= 3d-DiscHistory 3
- Elective* Check restrictions 3

### Junior Year

**Fall**
- PHI 3083 Res Meth in Phil 3
- PHH 3600* req= 3c-History 3
- PHI 3320* req= 3e-Being 3

**Spring**
- PHI 4782* req= 3e-Being 3
- PHH 3400 req= 3d-Values 3
- Elective* Check restrictions 3
- Elective* Check restrictions 3

### Senior Year

**Fall**
- PHP 3786* req= 4-ResElec 3
- PHI 4804* req= 4-ResElec 3
- Elective or PHI 4903H 3

**Spring**
- PHI 4938 Seminar 3
- Elective* Check restrictions 3
- Elective* Check restrictions 3
- Elective* Check restrictions 3

### PHOTOGRAPHY (B.S.)

**College of Arts and Humanities**

**E-mail:** ls@mail.ucf.edu

**Advisors:** Kevin Haran (UCF-Orlando), 407-823-2676; Steve Spencer (UCF-Daytona), 386-506-4093

The Photography B.S. program is a joint program between the University of Central Florida and Daytona Beach Community College.

(This program is only offered at UCF at Daytona Beach)

### Admissions Requirements

Completion of an A.S. in Photographic Technology from Daytona Beach Community College or equivalent coursework. Completion of an A.S. in Photographic Technology from Daytona Beach Community College.

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students should consult with a Photography advisor before selecting this major, and at least annually thereafter.
- Upper-division electives, internship credit, and course substitutions must be approved by the program director.
- Students must earn at least a “C” in each required upper level course and maintain an overall GPA of at least 2.0

### Degree Requirements

#### 1. UCF General Education Program (36 hrs)

Students who have not satisfied General Education Requirements before transferring will complete the remaining courses at UCF. The specific courses will depend on the general education courses completed as part of the articulated A.S., and will come from the following areas:

A. Communication Foundations
- ENC 1101 Composition I 3
- ENC 1102 Composition II 3
- SPC 2600* Speech 3

B. Cultural and Historical Foundations
- ARH 2051 History and Criticism of Art II 3
- MAC 1105 College Algebra or
- MGF 2106 College Mathematics or
- MGF 2107 Mathematics for Liberal Arts 3
- Computer Science or Statistics 3

D. Social Foundations
- Political Science or Economics 3

### 2. Common Program Prerequisites (0 hrs)

(Entered in as B.S. or B.S. requirements.)

Subject to change. Prerequisites have not been set by the state.

- ARH 2051 History and Criticism of Art II AS
- GRA 1741* Principles of Design and Color AS
- GRA 1109* Computer Graphics Fundamentals AS
- PGY 1403 Fundamentals of Photography AS
- PGY 3610C Photomedia I BS

### 3. AS Required Courses: (49 hrs)

(Completed in the A.S. degree program in Photographic Technology, or equivalent coursework)

- CGS 1570 Introduction to Computer Applications 1 hr
- DIG 1109 Digital Imaging Fundamentals 3 hrs
- GRA 1741 Principles of Design and Color 3 hrs
- PHY 1115 Color Materials and Processes 7 hrs
- PGY 1265 Advanced Processes and Techniques 4 hrs
- PGY 1402 Photographic Materials and Processes 4 hrs
- PGY 1806 Digital Imaging 4 hrs
- PGY 2000 History and Aesthetics of Photography 3 hrs
- PGY 2107 Large Format Photography 4 hrs
- PGY 2215 Studio Lighting 4 hrs
- PGY 2216 Location Photography 4 hrs
- PGY 2655 Applied Photography 4 hrs

### 4. Upper Division Required Courses (39 hrs)

- PGY 3002 Contemporary Photography 3 hrs
- ARH 3711 History of Photography II 3 hrs
- PGY 4003 Image, Culture, and Society 3 hrs
- CRW 3031 Creative Writing for Non-Majors 3 hrs
- GRA 3821 Digital Imaging for Photography 3 hrs
- PGY 3610C Photomedia I 3 hrs
- PGY 3620C Photomedia II 3 hrs
- PGY 4472 Photography Workshop/Project 3 hrs
- PGY 4228 Advanced Illustrative Photography 3 hrs
- PGY 4471 Photography Thesis 3 hrs
- PGY 3324 The Professional Environment 3 hrs
- PGY 3205 Photographic Lighting Techniques 3 hrs
- PGY 3480 Photographic Exhibition and Display 3 hrs

### 5. Upper Division Restricted Electives (3 hrs)

Select one of the following courses.

- PGY 3451 Alternative Processes 3 hrs
- PGY 3809 Photography and Web Design 3 hrs
- PGY 3751 Videography 3 hrs

### 6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

### 7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 42 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

### PHYSICAL EDUCATION (B.S.)

**College of Education**

**Department of Teaching and Learning Principles**

**ED 209**

http://pegasus.cc.ucf.edu/~ucfphyed/

Program Coordinator: Dr. Patricia Higginbotham

ED 320-H, 407-823-2050

E-mail: higginbp@mail.ucf.edu

**Admission Requirements:**

- Complete the University General Education requirements or its
UCF Degree Programs

1. UCF General Education Program (37 hrs)
   - A. Communication Foundations (9 hrs)
     - ENC 1101 Composition I
     - ENC 1102 Composition II
     - Select one: SPC 1600 Fundamentals of Oral Communication
   - B. Cultural-Historical Foundations (9 hrs)
     - Select AMH 2010 U.S. History 1492-1877
     - Select AMH 2020 U.S. History 1877-Present
     - Select PHI 2010 Introduction to Philosophy
   - C. Mathematical Foundations (6 hrs)
     - Select one: STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics
   - D. Social Foundations (6 hrs)
     - Prefer POS 2041 American National Government
     - Select PSY 2012 General Psychology
   - E. Science Foundations (7 hrs)
     - Select one:
       - AST 2002 Astronomy or
       - GEO 1020 Physical Geography or
       - GLY 1030 Geology and its Applications
   - F. Education Courses (9 hrs)
     - Select one:
       - Select one:
         - EDG 2701 Teaching Diverse Populations
         - EME 2040 Technology for Educators
   - G. Diversity Courses (3 hrs)
   - H. Other Program Prerequisites (4 hrs)
     - Select one:
       - ZOO 3736C Human Anatomy with Lab

2. Common Program Prerequisites (34 hrs)
   - A. Communications (9 hrs)
     - ENC 1101 Composition I
     - ENC 1102 Composition II
     - SPC 1600 Fundamentals of Oral Communication
   - B. Humanities (6 hrs)
     - PHI 2010 Introduction to Philosophy
     - Select one:
       - ARH 2051 History of Western Art II or
       - MUL 2010 Enjoyment of Music or
       - THE 2000 Theatre Survey or
       - FIL 2400 History of Motion Pictures
   - C. Mathematics (9 hrs)
     - MAC 1105 College Algebra
     - MGF 1106 Finite Mathematics
     - One of the following (per GEP)
       - STA 1060C Basic Statistics using MS Excel or
       - STA 2014C Principles of Statistics
   - D. Social Science/History (12 hrs)
     - Select one:
       - AMH 2010 U.S. History 1492-1877
       - AMH 2020 U.S. History 1877-Present
       - POS 2041 American National Government
       - PSY 2012 General Psychology
   - E. Science (9 hrs)
     - Select one:
       - PSC 1121 Physical Science
       - Select BSC 2010C Biology I

3. Education Core Requirements (12 hrs)
   - EDG 4233 Professional Teaching Practices
   - EDF 4214 Classroom Learning Principles

4. Specialization Requirements (30 hrs)
   - ZOO 3736C Human Anatomy with Lab
   - DAE 3370 Dance & Rhythms
   - PEO 3041 Games Analysis
   - PET 2622C Human Injuries
   - PET 4550 Fitness Assessment
   - PET 4518C Applied Exercise & Human Physiology
   - PET 4401 Administration and Evaluation in PE
   - PET 4550 Fitness Assessment
   - PET 4640 Adapted PE
   - PET 4823C Teaching Sports Skills

5. Internship I and Methods Block (6 hrs)
   - PET 3940 Internship I
   - PET 4710 Teaching Physical Education K-12

6. Internship II (PET 4943) (10 hrs)
   - All methods/specialization courses must be completed with a letter grade of "C-" or better before registering for Internship II
   - See additional requirements in College of Education, Office of Clinical Experiences

7. Foreign Language Requirements (0-8 hrs)
   - State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

8. Departmental Exit Requirements
   - Achieve a minimum 2.5 GPA in all courses within the major.
   - Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with the State Board of Education Rule 6A-5.065

9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence at UCF
   - 25% of course work must be completed in residence at UCF
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

10. Total Semester Hours Required 120 hours

11. Coaching Endorsement (Optional) (6 hrs)
    - PET 3765 Coaching Theory
    - Select one of the following courses:
      - PEO 2624 Coaching Basketball
      - PEO 3324 Coaching Volleyball
      - PEO 3644 Coaching Football

12. Recommended Sequence of Program Courses:

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
<th>Winter</th>
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<tbody>
<tr>
<td>EDF 4233</td>
<td>PET 4710</td>
<td>PET 4710</td>
</tr>
<tr>
<td>EDF 4214</td>
<td>PET 3940</td>
<td>PET 3940</td>
</tr>
</tbody>
</table>

Freshman Year

Fall:
- EDF 4233
- EDF 4214

Spring:
- PET 4710
- PET 3940

Winter:
- PET 4710
- PET 3940
Courses designated in 2 (Common Program Prerequisites) are "Departmental Residency Requirement consists of at least 15 Grades below "C" (2.0) in any required physics or mathematics Students who change degree programs and select this major Admission Requirements none these tracks. Students should consult their faculty advisors when deciding among specializations. While the various tracks share a common core of courses, they also Physics majors can select from five distinct tracks to earn their degree, as described below in Section 4, Specialization. While the various tracks share a common core of courses, they also enable students to prepare specifically for certain career paths.

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below "C" (2.0) in any required physics or mathematics courses are not acceptable; they must be repeated with a higher grade.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Physics.
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 + 2 hrs) (Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36.)

   A. Communication Foundations
      1. Select ENC 1101 and ENC 1102 6 hrs
      2. Select ENC 1076 3 hrs
   B. Cultural and Historical Foundations
      1. Select MAC 2111 4 hrs
   C. Mathematical Foundations
      1. Select MAC 2311 3 hrs

   2. Prefer COP 3223 3 hrs

   D. Social Foundations
      6 hrs

   E. Science Foundations
      1. Select PHY 2048 & L (PR: MAC 2311) 4 hrs
      2. Select a listed course 3 hrs

2. Common Program Prerequisites (20 hrs)

   - PHY 2048 & L (PR: MAC 2311) 4 hrs
   - PHY 2046 & L (PR: MAC 2311) 4 hrs
   - MAC 2311 Calculus with Analy Geo I GEP
   - MAC 2312 Calculus with Analy Geo II 4 hrs
   - MAC 2313 Calculus with Analy Geo III 4 hrs
   - PHY 2048 & L Physics Engr & Sci I Lab GEP
   - PHY 2049 & L Physics Engr & Sci II Lab 4 hrs

   *See Transfer Notes for possible substitutes

3. Core requirements (all tracks) (36 hrs)

   - MAP 2302 Differential Equations 3 hrs
   - PHY 3101 Physics Engr & Sci III 3 hrs
   - PHY 3113 Intro to Theoretical Methods of Physics 3 hrs
   - PHY 3220 Mechanics 3 hrs
   - PHY 3513 Thermal and Statistical Physics 3 hrs
   - PHY 3333 Electricity and Magnetism I 3 hrs
   - PHY 4324 Electricity and Magnetism II 3 hrs
   - PHY 4604 Introduction to Quantum Mechanics I 3 hrs
   - PHY 4605 Introduction to Quantum Mechanics II 3 hrs
   - PHY 4912 Directed Independent Research 3 hrs
   * (should be in the area of specialization).

   Laboratory requirements
   - PHY 3802L Intermediate Physics Lab 3 hrs
   - Select one of the following 3 hrs
   - PHY 3752C Physics of Sci instruments
   - PHY 3722C Physics Laboratory: Electronics

4. Specialization: select one specialization

4.1 General Physics Specialization (18 hrs)

   - PHY 4803L Advanced Physics Lab 3 hrs
   - Upper Division Restricted Electives 6 hrs
   - PHY, PHZ, or AST courses
   - Directed Electives 9 hrs

   Courses at a 3000 level or higher, approved by the Physics Department.
   Courses must be chosen in Physics, Mathematics, Chemistry, Computer Science, or Engineering.

4.2 Materials Physics Specialization (18 hrs)

   - Choose one lab from:
     - PHY 4803L Advanced Physics Lab 3 hrs
     - EEL 5305 Fabrication of Solid State Devices 4 hrs
   - Choose nine hours from:
     - EEL 3306 Semiconductor Devices 3 hrs
     - EGN 3365 Structure and Properties of Materials 3 hrs
     - EMA 4413 Electronic Properties of Materials 3 hrs
     - CHM 3411L Physical Chemistry Laboratory 2 hrs
     - PHZ 5405 Condensed Matter Physics 3 hrs
     - PHY 4605 Introduction to Quantum Mechanics II 3 hrs
     - EEL 5352 Semiconductor Mat & Device Char 3 hrs
   - Directed Electives 6 hrs
   - Courses at a 3000 level or higher, approved by the Physics Department.
   - Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.
   - Courses at a 3000 level or higher, approved by the Physics Department.
   - Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.

4.3 Optics and Lasers Specialization (18 hrs)

   - PHY 4424 Physical Optics 3 hrs
   - Choose six hours from:
     - EEL 4440 Optical Engineering 3 hrs
     - PHY 4445 Lasers 3 hrs
     - OSE 5203 Fundamentals of Applied Optics 3 hrs
     - OSE 5312 Fundamentals of Optical Science 3 hrs
     - OSE 5414 Fund. of Optoelectronic Devices 3 hrs
   - Directed Electives 9 hrs
   - Courses at a 3000 level or higher, approved by the Physics Department.
   - Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.
   - Courses at a 3000 level or higher, approved by the Physics Department.
   - Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.

4.4 Computational Physics Specialization (19 hrs)

   - PHZ 3151 Computer Methods in Physics 3 hrs
   - COP 3502C Computer Science I 3 hrs
   - COP 3503C Computer Science II 4 hrs
   - COT 4500 Numerical Calculus 3 hrs
   - Directed Electives 6 hrs
   - Courses at a 3000 level or higher, approved by the Physics Department.
   - Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.
   - Courses at a 3000 level or higher, approved by the Physics Department.
   - Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.

4.5 Astronomy Specialization (18 hrs)

   - AST 2002 Introduction to Astronomy 3 hrs
   - AST 3722C Observational Astronomy 3 hrs
   - Choose two of the following:

   - EDF 2005 3 hrs
   - ENC 1101 3 hrs
   - MGF 1106 3 hrs
   - PHY 2048 & L (PR: MAC 2311) 4 hrs
   - PHY 2049 & L Physics Engr & Sci II Lab 4 hrs

   E-mail: physics@ucf.edu

   MAP 310, 407-823-2325

http://www.physics.ucf.edu

E-mail: physics@ucf.edu

Chair: Ralph Llewellyn, 407-823-2325

Physics majors can select from five distinct tracks to earn their physics degree, as described below in Section 4, Specialization. While the various tracks share a common core of courses, they also enable students to prepare specifically for certain career paths. Students should consult their faculty advisors when deciding among these tracks.

UCF Degree Programs
5. Departmental Exit Requirements

- Students must have at least a 2.0 GPA in all courses counted toward the major.
- Students will be required to take a nationally normed test in Physics during their last semester.
- Students will have an exit interview in their last semester with a representative of the Physics Undergraduate Committee.
- Computer Competency met by COP 3223 or a departmental exam.

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation: None

7. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Semester Hours Required 120 hrs

Related Programs: Engineering, Mathematics
Related Minors: Mathematics, Physics, Astronomy
Transfer Notes:

Courses taken at community colleges do not substitute for Upper Division courses.
Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

CHM 2045C*: may use CHM 1040 plus CHM 1041

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer
Chem test See catalog 0
Math test See catalog 0

Freshman Year
Fall
ANT 2000* req# 1D2-GEP 3
ENC 1101 Composition I 3
MAC 2311 Calc Anal Geo I 4
CHM 2045C Chemistry Fund I 4

Freshman Year
Spring
ENC 1102 Composition II 3
PHY 2048 Phy for Eng Sci I 3
CHM 2046 Chemistry Fund II 3
CHM 2046L Chemistry Fund L 3
MAC 2312 Calc Anal Geo II 4

Sophomore Year
Fall
COP 3223 Intro to Prog C 3
HUM 2210* req# 1B1-GEP 3
SPC 1016 Fund Tech Presntn 3
MAC 2313 Calc Anal Geo III 4
PHY 2049 Phy for Eng Sci II 3

Sophomore Year
Spring
MUL 2010* req# 1B2-GEP 3
MAP 2302 Diff Equations 3
PHY 3010 Phy Eng Sci III 3
PHY 3802L Int Physic L 3
PHY 3113 Intro Ther Mth of 3

Senior Year
Fall
PHY 3220 Mechanics I 3
PHY 3523 Elect Mag I 3
PHY 4604 Wave Mechanics I 3
COP 3502C req# 6-Spec 3

Senior Year
Spring
PHY 3722C Physics L Elect 3
Elective* Check restrictions 2
Elective* Check restrictions 3

POLITICAL SCIENCE (B.A.)
College of Sciences, Political Science Department
CNH 415, 407-823-2608
http://www.cas.ucf.edu/politicalscience
E-mail: politics@ucf.edu
Chair: R. Handberg, 407-823-2608

Admission Requirements
Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior departmental approval.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

A. Communication Foundations
1. Select ENC 1101 & ENC 1102 6 hrs
2. Prefer SPC 1600 3 hrs

B. Cultural and Historical Foundations
1. Prefer AMH 2010 3 hrs
2. Select from GEP B.2 list 3 hrs
3. Prefer AMH 2020 3 hrs

C. Mathematical Foundations
1. Prefer MGF 1106 (may substitute a higher level math) 3 hrs
2. Prefer STA 2014C or STA 1060C 3 hrs

D. Social Foundations
1. Select POS 2041 3 hrs
2. Select from GEP D.2 list 3 hrs

E. Science Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)

PDS 2041* American National Government
POS 3703* Scope & Methods of Pol Sci
*See Transfer Notes for possible substitutes

3. Core (6 hrs)

- POS 2041 American National Government
- POS 3703 Scope & Methods of Pol Sci

4. Upper Division Restricted Electives (30 hrs)

Choose one of the following emphases

Emphasis 1: American Politics and Policy
Five courses from area A 15 hrs
Two courses from area B 6 hrs
Two courses from area C 6 hrs
One additional course from any area 3 hrs

Emphasis 2: International Relations-Comparative Politics
Two courses from area A 6 hrs
*Five courses from area B 15 hrs
Two courses from area C 6 hrs
One additional course from any area 3 hrs
*No more than two of the following courses may be considered part of area B credit: INR 4401, INR 4402, INR 4404.
Emphasis 3: Prelaw
Please see Political Science - Prelaw for the emphasis requirements.

Emphasis 4: International Studies
Please see Political Science - International Studies for the emphasis requirements.

AREAS OF SPECIALIZATION

A. American Politics and Policy

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<tbody>
<tr>
<td>POS 3122</td>
<td>State Government &amp; Public Policy</td>
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<td>POS 3173</td>
<td>Southern Politics</td>
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<td>Politics in Film</td>
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<td>Voting and Elections</td>
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<td>The American Presidency</td>
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<td>POS 3342</td>
<td>Congress and the Legislative Process</td>
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<td>POS 3443</td>
<td>Political Parties and Processes</td>
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<td>Interest Groups</td>
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<td>Cultural Pluralism and the Law</td>
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<td>POS 4603</td>
<td>American Constitutional Law I</td>
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<td>Women and Political Behavior</td>
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<td>American Public Policy</td>
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B. International Relations and Comparative Government

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<td>Comparative Politics</td>
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<td>CPO 3104</td>
<td>Politics of Western Europe</td>
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<td>Canadian Studies</td>
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<td>Politics of the Middle East</td>
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<td>CPO 3614</td>
<td>Politics of Eastern Europe</td>
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<td>CPO 4082</td>
<td>Comparative Judicial Processes</td>
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<td>CPO 4074</td>
<td>Political Economy</td>
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<td>CPO 4101</td>
<td>European Union Politics</td>
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<td>Government and Politics of Great Britain</td>
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<td>INR 4085</td>
<td>Women, Gender, and Globalization</td>
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<td>Topics and Cases in American Foreign Policy</td>
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<td>Strategic Weapons and Arms Control</td>
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<td>Contemporary International Politics of Asia</td>
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<td>INR 4225</td>
<td>The Vietnam War</td>
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<td>International Politics of Latin America</td>
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C. Political Theory

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<td>POT 4025</td>
<td>Ancient, Medieval and Early Modern Political Philosophy</td>
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<td>Politics and Literature</td>
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<td>POT 4305</td>
<td>The State, Society, and The Individual</td>
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<td>Utopia/Dystopia</td>
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<td>PUP 4414</td>
<td>Marxist Political Theory</td>
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<tr>
<td>POT 4532</td>
<td>Religion and Politics</td>
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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: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives (variable)
Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

Internship Program: Political Science
For students who excel, a limited number of internships may be available each semester for three to six hours of credit. Under the Internship Director, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquarters.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Economics, History
Related Minors: Economics, History, Psychology, Sociology, Philosophy

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- POS 2041* and POS 3703*: State mandated Common Program Prerequisite allow a student to enter the major with any six hours of introductory Political Science classes with a POS, INR, or CPO prefix. However, both POS 2041 and POS 3703 are course prerequisites for subsequent courses in the major, and other classes will not substitute.
Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

<table>
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<th>Freshman Year</th>
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</tbody>
</table>

**Note:** Students must meet all prerequisites before taking these classes.

### POLITICAL SCIENCE (B.A.) - INTERNATIONAL STUDIES TRACK

**College of Sciences, Political Science Department**

**CNH 415, 407-823-2608**

**http://www.cas.ucf.edu/politicalscience**

**E-mail: politics@ucf.edu**

**R. Handberg, 407-823–2608**

**Admission Requirements**

- none

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior departmental approval.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

**1. UCF General Education Program**

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<td>B. Cultural and Historical Foundations</td>
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<td>2. Select from GEP B.2 list</td>
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<tr>
<td>3. Prefer WOH 2022</td>
<td>3 hrs</td>
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<tr>
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<td>2. Prefer STA 2014C or STA.1060C</td>
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**2. Common Program Prerequisites**

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**3. Core Requirements**

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<td>Scope and Methods of Political Science</td>
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**4. Restricted Electives**

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<td>International Politics of Latin America</td>
</tr>
<tr>
<td>INR 4304</td>
<td>Issues in International Public Policy</td>
</tr>
<tr>
<td>INR 4335</td>
<td>Coercion in International Politics</td>
</tr>
<tr>
<td>INR 4351</td>
<td>International Environmental Law</td>
</tr>
<tr>
<td>INR 4401</td>
<td>International Law I</td>
</tr>
<tr>
<td>INR 4402</td>
<td>International Law II</td>
</tr>
<tr>
<td>INR 4403</td>
<td>Space Law</td>
</tr>
<tr>
<td>INR 4502</td>
<td>International Organizations</td>
</tr>
<tr>
<td>INR 4941</td>
<td>Internship (a maximum of 3 hours)</td>
</tr>
<tr>
<td>PUP 4503</td>
<td>Government and Science</td>
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</tr>
<tr>
<td>PUP 4510</td>
<td>Space Policy</td>
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</table>

Other courses may be substituted with the chair’s approval.

**5. Required minor**

<table>
<thead>
<tr>
<th></th>
<th>(18 hrs min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select from the following: Asian Studies, French, German, International Business (Business majors only), Italian, Latin American Studies, Middle East Studies, or Spanish. Note: No more than one course may be used to fulfill both this track and the minor.</td>
<td></td>
</tr>
</tbody>
</table>

**6. Departmental Exit Requirements**

- Maintain a minimum GPA of 2.0 in the major.
- Computer Competency met by POS 3703

**7. Foreign Language Requirements**

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

**8. Electives**

|   | (variable) |

**Note:** Students must meet all prerequisites before taking these classes.
9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Economics, History
Related Minors: Economics, History, Psychology, Sociology, Philosophy

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- POS 2041* and INR 2002*: Although state mandated CPP and INR are not required in the major, both POS 2041 and INR 2002 are required in the major.

POLITICAL SCIENCE - PRELAW TRACK (B.A.)

College of Sciences, Political Science Department

CNH 415, 407-823-2608

http://www.cas.ucf.edu/politicalscience

E-mail: politics@ucf.edu

R. Handberg, 407-823-2608

Prelaw students are encouraged to work closely with a prelaw advisor in planning their programs. By judicious use of electives, students build a firm foundation for law school entry and acquire a broad training which can result in career options upon graduation. For further information, consult the Department's prelaw advisor 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

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior departmental approval
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program 36 hrs
   A. Communication Foundations
      Select ENC 1101, ENC 1102 6 hrs
      Select SPC 1600 3 hrs
   B. Cultural and Historical Foundations
      Prefer AMH 2010 3 hrs
      Prefer AMH 2020 3 hrs
      Select from GEP B.2 list 3 hrs
   C. Mathematical Foundations 6 hrs

   2. Common Program Prerequisites (3 hrs)
      POS 2041* American National Gvt
      POS 3703* Scope & Methods of Pol Sci
*See Transfer Notes for possible substitutes

3. Core
   POS 2041 American National Government 0 hrs
   POS 3703 Scope & Methods of Pol Sci 0 hrs

4. Upper Division Restricted Electives (30 hrs)
   4.1 Select 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
   4.2 Select one (See listing under Political Science)
      - Five courses from area A and 15 hrs
        or Two courses from area B and 6 hrs
      - Five courses from area B and 15 hrs
   4.3 Select one course from area C 3 hrs

5. Departmental Exit Requirements
- Maintain a minimum GPA of 2.0 in the major
- Computer Competency met by POS 3703

6. Foreign Language Requirements (0-8 hrs)

Admission:
- Met by graduation requirement
Graduation:
- Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

Some suggested electives include:

- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting
- BUL 3270,3271 Business Law I & II
- PLA 3104 Legal Research
- PLA 3155 Legal Writing
- PHI 2101 Critical Thinking
- MGF 3202 Logic and Proof in Mathematics
- ENC 3241 Writing for the Technical Professional
- ENC 3250 Professional Writing
- LIN 4100 History of the English Language

Internship Program: Political Science

For students who excel, a limited number of internships may be available each semester for three to six hours of credit. Under the Internship Director, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquarters.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Economics, History, Philosophy
Related Minors: Economics, History, English, Philosophy

Transfer Notes:
PSYCHOLOGY (B.A.)
College of Sciences, Psychology Department
PH 302B, 407-823-2216
http://www.psych.ucf.edu/
E-mail: psychology@ucf.edu
R. Dipboye, 407-823-2216
Chair: R. Dipboye, 407-823-2216
Psychology Advising Center: PH 305G 407-823-2219
Students majoring in Psychology as the foundation of a Liberal Arts degree will probably find the BA option an appropriate degree. Not open to BS Psychology majors.

Admission Requirements

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog.

Departmental Residency Requirement: at least 21 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Psychology Department.

Students must earn at least a "C" (2.0) in each course counted toward the core requirements, restricted electives, and diversity courses.

Co-op or internship credit cannot be used in this major without prior approval.

Students should consult with the Department Director of Undergraduate Advising HPH 305g, prior to applying for gradua-

tion (before registration for the final term).

Graduating seniors should complete the senior exit survey.

Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

Honors in Psychology:

Additional Requirements

The Honors in Psychology is available to majors who show outstanding scholarship and promise in psychology.

Application and admission through the department

Fulfill University requirements for Honors in the Major

Have a Psychology GPA above 3.5, based on at least 11 credits, including PSY 3213C. No grades can be below a "B" (3.0)

Have an overall UCF GPA above 3.2

PSY 4903H Directed Honors Readings

PSY 4970H Undergraduate Honors Thesis

1. UCF General Education Program (36 hrs)

A. Communication Foundations

B. Cultural and Historical Foundations

C. Mathematical Foundations

1. Prefer MGF 1106 (may substitute a more advanced math) 3 hrs

2. Select STA 2023 or STA 2014C 3 hrs

D. Social Foundations

1. Select one of the listed choices 3 hrs

2. Select PSY 2012 3 hrs

E. Science Foundations

1. Select BSC 1005 or BSC 2010C 3 hrs

2. Select one of the listed choices 3 hrs

*See Transfer Notes for possible substitutes

2. Common Program Prerequisites (3 hrs)

BSC 1005* Biological Principles or BSC 2010C

PSY 2012* General Psychology

DEP 2004* Developmental Psychology 3 hrs

STA 2023* Statistical Methods I or STA 2014C

*See Transfer Notes for possible substitutes

3. Core requirements (10 hrs)

PSB 3002 Physiological Psychology 3 hrs

PSY 3213C Research Methods 4 hrs

BSC 1005 or BSC 2010C Biology 3 hrs

PSY 2012 General Psychology 3 hrs

STA 2023 Statistical Methods or STA 2014C 3 hrs

Select one course 3 hrs

EXP 3404 Basic Learning Processes

EXP 3204C Perception

EXP 3604C Cognitive Psychology

PSB 3441 Psychobiological Aspects of Drugs

PSB 4240C Brainwaves and Behavior

PSY 3302 Psychological Measurement

4. Restricted Electives (12 hrs)

Select two of the following 3 hrs

DEP 2004 Developmental Psychology

PPE 3003 Personality Theory

SOC 3004 Social Psychology

Select six additional upper division hours in Psychology 6 hrs

5. Diversity courses (9 hrs)

Take three diversity courses: one from A, one from B, and one from either A or B

A. Psychology Diversity courses

CLP 3154 Women's Mental Health

DEP 3464 Psychology of Aging

SOP 3723 Cross Cultural Psychology

SOP 3724 Psychology of Racial Prejudice

SOP 3742 Psychology of Women

SOP 3772 Sexual Behavior

SOP 3784 Psychology of Diversity

B. General Diversity courses

Select from courses outside the Psychology Department that focus on gender, class, or minority issues: AMH 3421, AMH 3423, AMH 3561, AMH 3562, AMH 3571, AMH 3572, AMH 3586; AML 3283, AML 3614, AML 3615, AML 3682, AML 3640, AML 4261, ANT 3202, ANT 3245, ANT 3302, ANT 3311, ANT 3313, ANT 3322, ANT 3363, ANT 3541, ANT 3640; ARH 3520; ASH 4304, ASH 4404, ASH 4442; CCJ 4463, CCJ 4507; CJ 4174; CLA 3851; COM 4410, COM 4461; CPO 3403, EUH 4576; FIL 3309; GEO 3471; GY 3001; HSC 4264; HUM 3320; HUM 3421; HUM 3423; HUM 3431; JST 3402, JST 3402, LAH 3130, LAH 3200, LAH 3400, LAH 5713; LIN 4643; LIT 3383, LIT 3192; MMC 4300; NUR 3805, NUR 3616; PAD 4446; PHI 3022, PHI 3033, PHM 3123; PLA 4020, PLA 4830; POS 4246, POS 4622; PUP 3314, PUP 4023.
6. Departmental Exit Requirements
- Earn a grade of "C" (2.0) or better in each psychology course used for major
- Maintain a minimum overall psychology GPA of 2.0
- Computer Competency met by PSY 3213C

7. Foreign Language Requirements
(0-8 hrs)
Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives
(variable)
Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Sociology, Anthropology, Statistics, Criminal Justice
Related Minors: Psychology, Sociology, Anthropology, Math, Statistics

Certificates: Aging Studies, Behavioral Forensics

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- BSC 1005*: any lower level BSC course or ZOO X010.
- Although CPP permit any psychology course, PSY 2012* is a prerequisite for all subsequent Psychology courses and will need to be taken for the major.
- Although CPP permit any statistics course, STA 2023* or STA 2014C is a prerequisite for subsequent Psychology courses and will need to be taken for the major.
- DEP 2004*: any lower level psychology course.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternatives in the same major. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall
BSC 1005 Bio Principles 3
ENC 1101 Composition I 3
MGF 1106* req# 1C1-GEP 3
PSY 2023* Stat Methods I 3

Spring
BSC 1005* req# 1B2-GEP 3
PSY 2012 General Psychology 3

Sophomore Year

Fall
AMH 2010* req# 1B1-GEP 3
MUL 2010* req# 1B3-GEP 3
STA 2022* Stat Methods I 3
SOP 2772* req# SA-Diver 3

Spring
ENC 1102 Composition II 3
PSC 1121* req# 1E1-GEP 3
REL 2300* req# 1A3-GEP 3
SPN 1121* req# Lang/Elect 4

Junior Year

Fall
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3

Spring
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3

Senior Year

Fall
CLP 3143* req# 4-ResElect 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3

Spring
CLP 3143* req# 4-ResElect 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3

PSYCHOLOGY (B.S.)
College of Sciences, Psychology Department
PH 302B, 407-823-2216
http://www.psych.ucf.edu/
E-mail: psychology@ucf.edu
R. Dipboye, 407-823-2216

Psychology Advising Center; PH 305 G, 407-823-2219
Students who desire a quantitative background in statistics, math, and science are encouraged to complete the program of study leading to the BS degree. Not open to BA Psychology majors.

Admission Requirements
none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students should consult with the Department Director of Undergraduate Advising HPH 305g, prior to applying for graduation (before registration for the final term).
- Graduating seniors should complete the senior exit survey
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

Honors in Psychology:
Additional Requirements (6 hrs)
- The Honors in Psychology is available to majors who show outstanding scholarship and promise in psychology
- Application and admission through the department
- Fulfill University requirements for Honors in the Major
- Have a Psychology GPA above 3.5, based on at least 11 credits, including PSY 3213C. No grades can be below a "B" (3.0)
- Have an overall UCF GPA above 3.2
- PSY 4903H Directed Honors Readings 3 hrs
- PSY 4970H Undergraduate Honors Thesis 3 hrs

1. UCF General Education Program (36 + 1 hrs)
(Note: Certain courses must be selected in the GEP for this major bringing the total GEP hours to more than 36)

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
   1. Prefer MGF 1106 (may substitute a more advanced math) 3 hrs
   2. Select STA 2023 or STA 2014C 3 hrs
D. Social Foundations
   1. Select one of the listed choices 3 hrs
   2. Select PSY 2012 3 hrs
E. Science Foundations
   1. Select BSC 2010C (or BSC 1005 if no additional Biology courses are planned) 4 hrs
   2. Select one of the listed choices 3 hrs

*See Transfer Notes for possible substitutions

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2. Common Program Prerequisites (3 hrs)
   - BSC 2010C* Biology I or GEP
   - BSC 1005 (If no additional Biology courses are planned)
   - PSY 2012* General Psychology GEP
   - PSY 3213* Developmental Psychology 3 hrs
   - STA 2023* Statistical Methods I or STA 2014C GEP

   *See Transfer Notes for possible substitutes

3. Core requirements (14 hrs)
   - BSC 2010C Biology I (or BSC 1005) GEP
   - PSB 3002 Physiological Psychology 3 hrs
   - PSY 3202 General Psychology GEP
   - PSY 3213C Research Methods in Psych 4 hrs
   - STA 2014C Advanced Research Methods 4 hrs
   - STA 2023 Statistical Methods or STA 2014C GEP

Select one course
   - EXP 3404 Basic Learning Processes 3 hrs
   - EXP 3404C Perception
   - EXP 3604C Cognitive Psychology
   - PSY 3441 Psychological Aspects of Drugs
   - PSY 422 Brainwaves and Behavior
   - PSY 4240C Neuropsychology
   - PSY 3302 Psychological Measurement

4. Restricted Electives (12 hrs)
   - A. Select two of the following: 6 hrs
     - DEP 2004 Developmental Psychology
     - PFE 3003 Personality Theory
   - B. Psychology electives: select six additional upper division hours in psychology 6 hrs

5. Diversity courses (6 hrs)
   - Take two diversity courses - one from A & one from B
     - A. Psychology Diversity courses 3 hrs
       - CLP 3184 Women's Mental Health
       - DEP 3464 Bias in Psychology
       - SOP 3704 Social Psychology
       - SOP 3724 Psych of Racial Prejudice
       - SOP 3742 Psych of Women
       - SOP 2772 Sexual Behavior
       - PSY 3784 Psychology of Diversity
     - B. General Diversity courses 3 hrs
       - Select from courses outside the Psychology department that focus on gender, class, or minority issues: AMH 3421, AMH 3423, AMH 3561, AMH 3562, AMH 3571, AMH 3572, AMH 3586; AML 3283, AML 3614, AML 3615, AML 3620, AML 3640, AML 4201; ANT 3241, ANT 3245, ANT 3302, ANT 3311, ANT 3313, ANT 3332, ANT 3363, ANT 3541, ANT 3640; ARH 3520; ASH 4304, ASH 4404, ASH 4442; CCJ 4443, CCJ 4670; CSE 4174; CLA 3851; COM 4014, COM 4461; COP 4303; EPH 4576; FIL 3209; GEO 3471; GED 3001; HSC 4564; HUM 3320; HUM 3401; HUM 3415; JST 3401, JST 3402; LAH 3130, LAH 3200; LAH 3400; LAH 5713; LIN 4643; LIT 3383; LIT 3392; MCM 4300; NUR 3805; NUR 3816; PAL 4446; PHI 3202; PHI 3203; PHM 1323; PLA 4020; PLA 4630; POS 4246; POS 4262; PUP 3314; PUP 3423; REL 3152; SOW 3620; SPA 4612; SPA 4613; SPA 4772; SYD 3700; SYD 3740; SYD 3750; SYD 3751; SYD 3800; SYD 4730; SYD 4780; SYD 4810; SYD 4813; THE 3230; WST 3015

6. Science Electives (12 hrs)
   - A. Select at least six credits outside Psychology from:
     - (See course listing for prerequisites)
       - CGS 2100CC Computer Fundamentals of Business
       - COP 2003C Computer Science I
       - COP 2003G Computer Science II
       - ENC 3241 Writing for the Technical Professional or ENC 3211 Theory and Practice of Technical Writing
       - ENC 3280 Technical Writing Style
       - MAC 2233 Concepts of Calculus
       - MAC 2253 Applied Calculus I
       - MAC 2254 Applied Calculus II
       - PCB 3063 & L Genetics with lab
       - PCB 3703C Human Physiology
       - STA 4102 Computer Process of Stat Data
       - STA 4163 Statistical Methods I
       - STA 4164 Statistical Methods II
       - ZOO 3733C Human Anatomy
   - B. Select at least two of the following: 5-6 hrs
     - EXP 3204C Perception
     - EXP 3604C Cognitive Psychology
     - EXP 4507C Advanced Human Memory and Cognition
     - PSY 3441 Psychobiological Aspects of Drugs
     - PSY 422 Brainwaves and Behavior
     - PSY 4240C Neuropsychology
     - PSY 3302 Psychological Measurement
     - PSY 3320C Survey Methods in Psychology

7. Departmental Exit Requirements
   - Earn a grade of "C" (2.0) or better in each psychology course
   - Maintain a minimum overall psychology GPA of 2.0
   - Computer Competency met by PSY 3213C

8. Foreign Language Requirements (0-8 hrs)
   - Admission: Met by graduation requirement.
   - Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (variable)
   - Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

10. University Minimum Exit Requirements
    - A 2.0 UCF GPA
    - 60 semester hours earned after CLEP awarded
    - 48 semester hours of upper division credit completed
    - 30 of the last 36 hours of course work must be completed in residence at UCF
    - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
    - Complete the General Education Program, the Gordon Rule, the CLAST, and nine hours of Summer credit (if applicable).

Total Semester Hours Required 120 hrs
Tentative Course Schedule for Entering Freshmen
Freshman Year*

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<tr>
<td>CGS 1060C</td>
<td>3</td>
<td>MGF 1106</td>
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<td>POS 2041</td>
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<td>PSY 2012 or SYG 2000</td>
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<td>ECO 2013</td>
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<td>One Course: ARH 2050,</td>
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<td>ARH 2051, MUL 2100,</td>
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Sophomore Year

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<td>AMH 2230 or</td>
<td>3</td>
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<td>ECO 2013</td>
<td>3</td>
</tr>
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<td>BSC 1050 or MCB 1310</td>
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<td>or ANT 2511</td>
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Junior Year

<table>
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<tr>
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<th>Spring</th>
<th>15 hrs</th>
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</tbody>
</table>

Related Programs: Accounting, Communications, Economics, Legal Studies, Computer Science, Social Work, Political Science, Criminal Justice, Health Services Administration, Management
Related Minors: Communications, Business, Economics, Political Science, Legal Studies, Criminal Justice
Transfer Notes: Intro. to Computer Science (CGS 1060C) or any Computer Science course
Electronic (ECO 2013) or any Macroeconomics course
American National Government (POS 2041) or any course in American National Government

Total Semester Hours Required 120 hrs

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at the college level, beyond University requirement.

All other PAD majors must complete at least 21 hrs of PAD prefixed electives at the 3000 level or higher within the restricted elective area;
Additional electives can be taken from other allied supporting fields such as accounting, legal studies, communications, computer science, criminal justice, economics, political science, social work, sociology and statistics. Courses should be selected with the assistance of an advisor, and must be upper division (3000-4000 level).

5. Departmental Exit Requirements
The students must attain a minimum grade of “C” (2.0) in all Common Program Prerequisite courses and in all Core Requirements (see sections 2 and 3 above). An overall 2.0 GPA must be attained for all coursework (see sections 1, 2, 3 and 4).

6. B.A./B.S. Option 6 hrs
- Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at the college level.
- Students pursuing the B.S. degree must complete two additional upper level technical courses (six credit hours) from a list approved by the Department.

7. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at the college level, beyond University requirement.

UCF Degree Programs

UCF Degree Programs

College of Health and Public Affairs
HPA2 238, 407-823-2604
http://www.cohpa.ucf.edu/pubadm/
Chair: Dr. Mary Ann Feldheim
Undergraduate Coordinator: Mr. Robert Morin

Admission Requirements none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students should complete the General Education Program and the Common Program Prerequisites before transferring to the Florida Public University/Community College System.
- Students should consult with a departmental advisor on a regular basis.
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College and should be completed in the first 60 hours.
- Students must earn at least a “C” (2.0) in each course accepted as a Common Program Prerequisite and Core Requirement (see sections 2 and 3 below).
- No transfer course will be accepted with a grade lower than a “C” (2.0).
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
- MAC 1105 or MGF 1106
- Select CGS 1060C
D. Social Foundations (nine hours required for major) 6 hrs
- Select POS 2041
- PSY 2012, SYG 2000 or ANT 2000
E. Science Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)
- CGS 1060C Intro to Computer Science GEP
- POS 2041 American National Government GEP
- ECO 2013 Principles of Macroeconomics 3 hrs

3. Core Requirements (18 hrs)
- PAD 3003 Public Admin. in American Society 3 hrs
- PAD 4034 Administration of Public Policy 3 hrs
- PAD 4104 Administrative Theory 3 hrs
- PAD 4204 Fiscal Management 3 hrs
- PAD 4414 Public Personnel Administration 3 hrs
- PAD 4720 Survey Research in Public Administration 3 hrs

4. Upper Division Restricted Electives (39 hrs)
Public Administration electives are required as follows:
- Double Majors, those who complete a PAD major, and those of another UCF major, must take a minimum of 15 hrs PAD prefixed electives;
- Those who complete a recognized UCF minor in a discipline outside Public Administration must take a minimum of 18 hrs PAD prefixed electives;
Students seeking to change tracks once accepted into the major, must re-apply to the RTV major under the new, desired track.

All students are required to pay a fee for equipment insurance.

The maximum of 3 credit hours of internship may be earned in one semester. Internship credit, plus all other hours taken within the academic area outside the School of Communication.

To ensure completion within 120 hours and to comply with the 80 hour rule, no more than 40 of the 120 hours may be taken within the Nicholson School of Communication.

The six PAD required core courses for the major will be required of the PAD minor. These are PAD 3003, PAD 4414, PAD 4104, PAD 4204, PAD 4034, and PAD 4720.

The Department of Public Administration offers minors in Emergency Management and Homeland Security, Urban and Regional Planning, Public Administration, and American Humanities, and also offers a certificate in Nonprofit Management.

The UCF General Education Program (36 hrs)

1. UCF General Education Program (36 hrs)

A. Communication Foundations
   - Select ENC 1101 & ENC 1102

B. Cultural and Historical Foundations
   - Select HUM 2100 or HUM 2101

C. Mathematical Foundations
   - Select MGF 1106 (may substitute a higher level math)

D. Social Foundations
   - Elective

E. Science Foundations
   - Elective

2. Common Program Prerequisites (0 hrs)

Select one course
   - SPC 1016 Fund of Technical Presentations
   - SPC 1600 Fund Oral Communication

3. Core requirements (all areas) (21 hrs)

   a. Select one of the following:
      - CGS 2100CC Computer Fundamentals of Business
      - CGS 2395C Desktop/Internet Publishing
      - CGS 3175 Internet Applications

   b. Complete all the following:
      - RTV 2102 Writing for the Electronic Media
      - RTV 3000 Production Fundamentals of Electronic Media
      - RTV 3000 Development and Structure of Electronic Media and New Technology
      - MMC 4200 Mass Communication Law
      - MMC 4240 Mass Communication Law
      - MMC 3420 Mass Media Research Meth

4. Specialization: Select one area (18 hrs)

   4.1 Production
      - Select 18 hours from the following:
      - RTV 3210C Audio Production I
      - RTV 3220C Studio, Recording Production
      - RTV 3230C Lighting for Video
      - RTV 3260C Single Camera Video Production & Edit
      - RTV 3263C Advanced Video Production
      - RTV 3280C Production of Int. Multimedia
      - RTV 3942L Practicum
      - RTV 4211C Audio Production II
      - RTV 4280C Webcasting I
      - RTV 4281C Webcasting II
      - RTV 4206C Television Directing
      - RTV 4270C Radio Production & Programming
      - RTV 4941 Internship

   4.2 Broadcast Journalism (18 hrs)
      - RTV 3260C Single Camera Video Production & Edit
      - RTV 3301 Electronic Journalism I
      - RTV 3304 Electronic Journalism II
      - RTV 4202C Television News
      - MMC 4402C Contemporary Media Issues
      - JOU 3004 History of American Journalism

   4.3 Broadcast Generalist (18 hrs)
      - RTV 3211C Broadcast/Announcing & Performance
      - RTV 4270C Radio Production & Programming
      - RTV 4200C Broadcast Management
      - ADV 1103 Radio-TV Advertising
      - CMG 3420 Corporate/Institutional Video
      - COM 3330 Computer-Mediated Comm.
      - MMC 3423 New Media Technologies

5. Required Minor (18 hrs minimum)

Radio-Television majors must complete an 18 hour minor in an academic area outside the School of Communication.

UCF Degree Programs

Fall 15/16 hrs Spring 15/16 hrs
PAD 4104 3 PAD 4034 3
PAD 4414 3 PAD 4204 3
PAD Elective 3 PAD Elective 3
Restricted Elective 3 Restricted Elective 3
(Foreign Lang I) or B.S. option 3/4 (Foreign Lang II) or B.S. option 3/4

Senior Year
Fall 15 hrs Spring 12/15 hrs
PAD Elective 3 PAD Internship 3/6
PAD Elective 3 PAD Elective 3
Restricted Elective 3 Restricted Elective 3
Restricted Elective 3 Elective 3
Restricted Elective 3

Minors

The six PAD required core courses for the major will be required of the PAD minor. These are PAD 3003, PAD 4414, PAD 4104, PAD 4204, PAD 4034, and PAD 4720.

The Department of Public Administration offers minors in Emergency Management and Homeland Security, Urban and Regional Planning, Public Administration, and American Humanities, and also offers a certificate in Nonprofit Management.

RADIO-TELEVISION (B.A.)

College of Sciences
Nicholson School of Communication
COM 238, 487-823-2681
http://www.cas.ucf.edu/communication
E-mail: radiotv@ucf.edu
Contact: M.A. Shaver

Admission Requirements - Limited Access

Students should apply to become Radio-Television majors only after completing all requirements for admission. Deadlines are:

October 1 to be admitted the next Spring term
February 1 to be admitted the next Summer term
July 1 to be admitted the next Fall term

Attain an overall minimum 2.25/4.0 GPA based on a minimum of 30 credit hours of college work. Note: meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis. The GPA cut-off varies each term, ranging from a minimum of 2.9.

Meet a grammar proficiency standard

Receive a positive evaluation of other factors specified by the School.

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog.

Students may complete an internship off campus in a professional broadcast, production, or corporate operation with advisor’s approval.

Internship credit may be used in this major pending departmental permission.

Co-op credit may be used in this major pending approval from an RTV advisor.

Students should consult with a School advisor.

School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication.

Of the 120 hours required for graduation, 80 hours must be taken outside of the Nicholson School of Communication.

Of these 80 hours, 65 must be taken in the liberal arts (i.e. within the College of Arts & Humanities or the College of Science).

To ensure completion within 120 hours and to comply with the 80 hour rule, no more than 40 of the 120 hours may be taken within the Nicholson School of Communication.

Radio TV majors must select their required minor from outside the School of Communication to remain below the 40 credit hour school maximum.

Students seeking to change tracks once accepted into the major, must re-apply to the RTV major under the new, desired track.

All students are required to pay a fee for equipment insurance.

A maximum of 3 credit hours of internship may be earned in one semester. Internship credit, plus all other hours taken within the school, must not exceed 40 hours.

A maximum of 6 credit hours of internship may be earned within the 120 credit hours required for graduation. Summer internships are available during “C” term only.

Courses designated in 1 (General Ed Prerequisites) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

Specialization: Select one area

4.1 Production

Select 18 hours from the following:

RTV 3210C Audio Production I
RTV 3220C Studio Recording Production
RTV 3230C Lighting for Video
RTV 3260C Single Camera Video Production & Edit
RTV 3263C Advanced Video Production
RTV 3280C Production of Int. Multimedia
RTV 3942L Practicum
RTV 4211C Audio Production II
RTV 4280C Webcasting I
RTV 4281C Webcasting II
RTV 4206C Television Directing
RTV 4270C Radio Production & Programming
RTV 4941 Internship

4.2 Broadcast Journalism (18 hrs)

Select 18 hours from the following:

RTV 3260C Single Camera Video Production & Edit
RTV 3301 Electronic Journalism I
RTV 3304 Electronic Journalism II
RTV 4202C Television News
MMC 4402C Contemporary Media Issues
JOU 3004 History of American Journalism

4.3 Broadcast Generalist (18 hrs)

Select 18 hours from the following:

RTV 3211C Broadcast/Announcing & Performance
RTV 4270C Radio Production & Programming
RTV 4200C Broadcast Management
ADV 1103 Radio-TV Advertising
CMG 3420 Corporate/Institutional Video
COM 3330 Computer-Mediated Comm.
MMC 3423 New Media Technologies
ADV 3000 Principles of Advertising
PUR 4000 Public Relations
COM 3110 Business & Prof. Comm.
EC 2210 Writing for Business Professionals

Required Minor (18 hrs minimum)

Radio-Television majors must complete an 18 hour minor in an academic area outside the School of Communication.
6. School Exit Requirements
   - To avoid delaying graduation, you must request a review of requirements before registering for your last term.
   - Achieve an overall "C" GPA (2.0) in UCF Radio/TV courses used to satisfy the major.
   - Computer competency met by CGS 2100C or departmental assessment.

7. Foreign Language Requirements (0-8 hrs)
   - Admission: Met by graduation requirement
   - Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)
   - Select primarily from upper level courses, with school advisor's approval. Must be from outside of the school in order to not exceed the 40 credit hour cap. The majority of electives should be taken in the Liberal Arts to comply with the 65 hour Liberal Arts requirement.

9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Advertising/Public Relations, Animation, Digital Media, Journalism, Film, Theatre

Related Minors: Digital Media, Film, Marketing, Theatre

Transfer Notes:
   - Courses taken at community colleges do not substitute for Upper Division courses
   - Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

RADIOLOGIC SCIENCES (B.S.)
College of Health and Public Affairs
HPA2 210, 407-823-2747
http://www.cohp.uca.edu/health.pro/radbs.cfm
Undergraduate Program Director: Thomas Edwards
E-mail: tedwards@mail.ucf.edu

Admission Requirements
   - Acceptance to the university does not necessarily constitute admission to the upper division Radiologic Sciences Program
   - Separate application to the limited access program must be made directly to the program on or before March 1 of the year admission is sought
   - UCF application must be submitted by the program deadline of March 1. Acceptance to UCF is necessary before acceptance to the program can occur
   - This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
   - Criminal history information (background check) must be submitted on or before April 1st of the year admission is sought. For Florida residents the criminal history must be certified by the Florida Department of Law Enforcement (FDLE).
   - A personal interview is also required.
   - Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program. All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C."

Degree Requirements
   - Students who change degree programs and select this major must adopt the most current catalog
   - Students should complete the General Education Program, Foreign Language Admissions, and the Common Program Prerequisites Requirements before transferring within the Florida Public University/Community College System
   - Students should consult with a departmental advisor
   - The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
   - A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program
   - UCF Residency Requirement for Radiography: 33 hours

1. UCF General Education Program (36 + 2 hrs)
   - A. Communication Foundations
     - 9 hrs
   - B. Cultural Historical Foundations
     - 9 hrs
   - C. Mathematical Foundations
     - 6 hrs
   - Select MAC 1105*
   - Select CGS 1060C
   - D. Social Foundations
     - 6 hrs
   - E. Science Foundations
     - Select BSC 2010C*
     - Select PHY 2053C*

2. Common Program Prerequisites (12 hrs)
   - CGS 1060C Introduction to Computer Science GEP
   - PCB 3703C* Human Physiology
   - PHY 2053C* College Physics I GEP
   - PHY 2054C* College Physics II GEP
   - ZOO 3733C* Human Anatomy
   - MAC 1105* College Algebra GEP

   * See Transfer Notes

3. Core Requirements (77 hrs)
   - Junior Level
     - RTE 3000 Introduction to Radiologic Sciences
       - 3 hrs
     - RTE 311C Introduction to Patient Care
       - 2 hrs
     - RTE 3503C Radiographic Procedures I
       - 3 hrs
     - RTE 3116 Advanced Patient Care
       - 3 hrs
     - RTE 3418C Principles of Radiographic Exposure I
       - 3 hrs
     - RTE 3930 ST: Clinical Education I
       - 2 hrs
     - RTE 3513C Radiographic Procedures II
       - 3 hrs
     - RTE 3457C Principles of Radiographic Exposure II
       - 3 hrs
     - RTE 3604C Physics of Image Production
       - 2 hrs
     - RTE 3308 Medical Physics
       - 3 hrs
     - STA 2023 Statistical Methods I
       - 3 hrs
     - HSC 4550 Pathophysiological Mechanisms
       - 3 hrs
     - RTE 3930 ST: Clinical Education II
       - 4 hrs

   - Senior Level
     - RTE 4563 Special Radiographic Procedures
       - 2 hrs
     - RTE 4782 Pathophysiology
       - 2 hrs
     - RTE 4932 ST: Clinical Education III
       - 5 hrs
     - RTE 4573 Advanced Imaging Modalities
       - 3 hrs
     - RTE 4XXX Computed Tomography Protocols or
       - 1 hr
     - RTE 4XXX Mag Resonance Imaging Protocols
       - 1 hr
     - RTE 4932 ST: Clinical Education IV
       - 6 hrs
     - RTE 4385 Radiobiology
       - 1 hr
     - RTE 4932 ST: Clinical Education V - A
       - 2 hrs
     - RTE 4932 ST: Clinical Education V - B
       - 4 hrs
     - RTE 4473 Quality Improvement
       - 3 hrs
     - RTE 4762 Anatomy for the Medical Imager
       - 3 hrs
     - RTE 4206 Leadership in Radiologic Sciences
       - 3 hrs
     - RTE 4932 ST: Advanced Clinical Practicum
       - 4 hrs

5. Program Exit Requirements (127 hrs)
   - A minimum overall GPA of 2.50 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program. The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Graduates are eligible to apply for admission to the radiography certification exam administered by the American Registry of Radiologic Technologists (ARRT).
6. Electives

7. Foreign Language Requirements
   Admissions: Two years of one foreign language in high school, or
   one year of one foreign language in college (or equivalent proficien-
   cy exam) prior to graduation.

   Graduation: none

8. University Minimum Exit Requirements
   - An overall GPA of 2.5
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in res-
     idency at UCF
   - 25% of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit
     by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the
     CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 126 hrs

Renewed: 2006-2007 Undergraduate Catalog
4. Special College and/or Department Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in Real Estate must apply for admission to the major.
- Final exams will be given during exam week.
- Any student receiving a business degree must complete one half (30) of the 60 hours of upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- A maximum of 6 hours of required or elective coursework can count toward another major or minor degree program.
- Students majoring in finance must earn a grade of "C" (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major.
- FIN 3403 is included in this requirement.
- Students must earn at least a 2.0 GPA in the major and CBA.

5. Required Courses

- **Electives*** (variable)

6. Restricted Electives

- **Elective 3**
- **Elective 3**
- **Elective 3**

7. Foreign Language Requirements

- **Elective 3**
- **Elective 3**
- **Elective 3**

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

9. Electives***

- **Elective 3**

Total Semester Hours Required

- **Elective 3**

UCF Degree Programs

**Religious Studies (B.A.)**

College of Arts and Humanities

Philosophy Department, CNH 411,
http://www.cas.ucf.edu/philosophy/
E-mail: religion@mail.ucf.edu
Shaun Gallagher, 407-823-2273; Fax: 407-823-6658

Admission Requirements

- none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior approval by the chair.
- Students must earn at least a "C" (2.0) in each required course.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.
2. Common Program Prerequisites

3. Core requirements
   a. Core
      (24 hrs)
      (0 hrs)
      HUM 2210 Humanistic Traditions I
      HUM 2230 Humanistic Traditions II
      REL 2300 World Religions
      b. Foundations in the Study of Religion and the Humanities
         (9 hrs)
         Select three courses, at least two must be from (1)
         (1) Religion
         PHI 3700 Philosophy of Religion
         REL 4110 Religion and the Arts
         POT 4632 Religion and Politics
         SYO 4200 Sociology of Religion
         REL 3131 Religion in America
         ANT 3241 Magic, Ritual, and Belief
         (2) Humanities and Classics
         HUM 3431 Ancient Humanities
         HUM 3435 Medieval Humanities
         HUM 3255 Modern Humanities
         HUM 3252 Contemporary Humanities
         CLA 3850 Classical Mythology
         CLA 3851 Comparative Mythology
         c. Traditions: Religion in a Global World
            (9 hrs)
            Select three courses:
            HUM 3410 Asian Humanities
            HUM 3417 Hindu Thought and Culture
            HUM 3419 Islamic Thought and Culture
            HUM 3552 Christian Thought
            HUM 3553 Moses, Jesus, and Mohammed
            JST 3401 The Jewish People I or JST 3402 The Jewish People II
            ANT 3245 Native American Religions
            REL 3340 Buddhist Thought
         d. Applications: Topics and Issues in the Study of Religion
            (6 hrs)
            Select two courses:
            REL 3162 Healing: Culture, Art, and Praxis
            HUM 4554 Religious Quest and the Human Dilemma
            HUM 4303 The Spiritual Ideal
            PHI 3033 Philosophy, Religion, and the Environment
            REL 3115 Religion, Spirituality, and Popular Music
            REL 3111 Religion and Philosophy through Film
            REL 3432 Roots of Western Mysticism
   4. Upper division Restricted Electives
      (9 hrs)
      Select three courses from the following list and/or the Core list above (if not being used to fulfill Core Requirements): HUM 3320 Contemporary Multicultural Studies HUM 4301 The Classical Ideal HUM 4330 Performance Theory PHI 4321 Philosophy of Embodiment: Mind/Body/Self PHI 4368 Ethical Issues in the 21st Century PHI 4341 Ways of Knowing PHI 4804 Critical Theory PHP 3786 Existentialism AML 3615 Harlem, Haiti, and Havana LIT 4374 Literature of the Bible LIT 3202 Death and Dying JST 3100 The Hebrew Creative Mind JST 3550 Introduction of Modernism into Judaism JST 3701 History of the Holocaust JST 3751 Literature of the Holocaust JST 3810 The Jewish National Movement and Roots of Zionism ASH 3222 Islam and its Empires ASH 3223 The Modern Middle East
   Note: Relevant new or special topics courses in philosophy, humanities, or other relevant areas may be substituted for some required courses with prior approval by department advisor.

5. Honors in the Major
   Students considering graduate school in Religious Studies are strongly encouraged to take Honors in the Major. Requirements are as follows:
   a. Core and Elective Requirements
      (30 hrs)
      Core and Elective Requirements
      Same requirements as for regular majors
      Honors Thesis
      (6 hrs)
      REL 4903H Honors Directed Readings
      REL 4970H Honors Thesis
   Additional Requirements
   - Application and admission through the Humanities Honors Coordinator and the Burnett Honors College
   - Fulfill University requirements for Honors in the Major
   - Earn a "B" (3.0) or better in both REL 4903H and REL 4970H
   - Maintain a UCF GPA of at least 3.2 and a Religious Studies GPA of at least 3.5
   - Successful completion and oral defense of Honors thesis
   b. Departmental Exit Requirements
      (3 hrs)
      Either REL 4970H: Honors Thesis (3 hrs) or REL 4910 Senior Research Seminar (3 hrs).
      - Earn a "C" (2.0) or better in each required course
      - Computer Competency met by REL 4970H, REL 4910, or by STA 1060C.
      - To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.
   c. Foreign Language Requirements
      (0-8 hrs)
      Admission: Met by graduation requirement
      Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.
   d. Electives
      (variable)
      Select primarily from upper level courses, with departmental advisor’s approval.
      May be outside the department.
   e. University Minimum Exit Requirements
      A 2.0 UCF GPA
      60 semester hours earned after CLEP awarded
      48 semester hours of upper division credit completed
      30 of the last 36 hours of course work must be completed in residency at UCF
      A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
      Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)
   f. Total Semester Hours Required
      120 hrs

Related Programs: Philosophy, Humanities, Liberal Studies
Related Minors: Philosophy, Humanities, Judaic Studies, Religious Studies
Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a department advisor for alternate, new or more appropriate selections.

Freshman Year
Fall
ENC 1101 Composition I 3
ENC 1102 Composition II 3
HUM 2210 Humanistic Tradition I 3
MGF 1107 req# 1A-GEP 3
REL 2300 World Religions 3
SPN 1102 req# 1A-Lang/Elect 3
Spring
ENC 1101 Composition I 3
HUM 2210 Humanistic Tradition I 3
MGF 1107 req# 1A-GEP 3
REL 2300 World Religions 3
SPN 1102 req# 1A-Lang/Elect 3
Sophomore Year
Fall
ANT 2511 req# 1E-GEP 3
COM 1000 req# 1A-GEP 3
PSY 2012 req# 1D-GEP 3
HUM 2525 req# 4-ResElec 3
JST 3401 req# 3c-Tradtns 3
Spring
ANT 2511 req# 1E-GEP 3
COM 1000 req# 1A-GEP 3
PSY 2012 req# 1D-GEP 3
HUM 2525 req# 4-ResElec 3
JST 3401 req# 3c-Tradtns 3
2006-2007 Undergraduate Catalog
RESTAURANT AND FOOD SERVICE MANAGEMENT (B.S.)
Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-903-8000
http://www.hospitality.ucf.edu

Degree Requirements

1. UCF General Education Program (GEP) (36 hrs)
   A. Communications Foundations
      9 hrs
   B. Cultural and Historical Foundations
      9 hrs
   C. Mathematical Foundations
      Select MAC 1105 College Algebra 3 hrs
      or Select CGS 2100CC Computer Fundamentals for Business or STA 2023 Statistical Methods I 3 hrs
   D. Social Foundations
      Select ECO 2013 Macroeconomics 3 hrs
      or
      Select ECO 2023 Microeconomics 3 hrs
      Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
   E. Science Foundation 6 hrs

2. Common Program Prerequisites (6 hrs)
   HFT 1000 Introduction to Hospitality Management 3 hrs
   FSS 2221C Quantity Food Preparation 3 hrs

3. Quantitative Tools
   CGS 2100CC Computer Fundamentals of Business (GEP) or STA 2023 Statistical Methods I (GEP)
   or ECO 2013 Macroeconomics (GEP)
   or ECO 2023 Microeconomics (GEP)
   MAC 1105 College Algebra

4. Managerial Tools (25 hrs)
   HFT 2403 Hospitality Financial Accounting 3 hrs
   HFT 2500 Hospitality Marketing 3 hrs
   HFT 2220 Hospitality Human Resources 3 hrs
   HFT 3444 Hospitality Information Systems 3 hrs
   HFT 3600 Legal Environment in Hospitality 3 hrs
   HFT 3431 Hospitality Managerial Accounting 3 hrs
   HFT 3540 Guest Services Management 3 hrs
   HFT 3261 Restaurant Management 3 hrs
   HFT 3933 Distinguished Lectures in Hospitality Mgmt 1 hr

5. Internship
   (3 hrs)
   HFT 3940 Internship I 1 hr
   HFT 4941 Internship II 1 hr
   HFT 4944 Internship III 1 hr

6. Restaurant Management Core (18 hrs)
   HFT 4286 Hospitality Communications 3 hrs
   HFT 4645 Restaurant Real Estate, Site Selection and Modeling 3 hrs
   HFT 4861C Beverage Management 3 hrs
   HFT 4453 Food, Beverage and Labor Cost Controls 3 hrs
   HFT 4284 Training and Employee Performance in the Food Service Industry 3 hrs
   HFT 3940 Internship I 1 hr
   HFT 4941 Internship II 1 hr
   HFT 4944 Internship III 1 hr

7. Special College Requirements
   - Final exams will be given during Exam Week only.
   - Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management classes at UCF.

8. Restricted Electives (18 hrs)
   Choose any courses from the list below for a total of 18 credit hours
   FSS 2068 Food Service Operations Management 3 hrs
   FSS 2486 Catering and Banquet Organization 3 hrs
   HFT 4645 Restaurant Real Estate, Site Selection and Modeling 3 hrs
   HFT 4861C Beverage Management 3 hrs
   HFT 4453 Food, Beverage and Labor Cost Controls 3 hrs
   HFT 4284 Training and Employee Performance in the Food Service Industry 3 hrs
   HFT 3940 Internship I 1 hr
   HFT 4941 Internship II 1 hr
   HFT 4944 Internship III 1 hr

9. Foreign Language Requirements (0-8 hrs)
   State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

10. University Minimum Exit Requirements
    - A 2.0 UCF GPA
    - 48 hours of upper division credit completed
    - 30 semester hours of coursework completed in residency (last 30 hours) at UCF
    - A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
    - Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable).

11. Unrestricted Electives (6 – 14 hrs)
    As necessary to result in 120 total credit hours.

Total Semester Hours Required 120 hrs

Community/Junior College Transfer Notes
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF’s Rosen College of Hospitality Management.
- Florida Public Community College students are encouraged to complete general education requirements, prior to transferring at UCF.
- A minimum of 30 semester hours must be completed at UCF within the Rosen College of Hospitality Management.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.

Four Year Plan of Study for B.S. Restaurant and Food Service Management
Plan your required nine summer credit hours into your course of study.

Freshman Year
Fall
ENC 1101 - Eng Comp I 3 hrs
FSS 2068 Food Service Operations Management 3 hrs
HFT 3261 Restaurant Management 3 hrs
HFT 3940 Internship I 1 hr
Spring
ENC 1102 - Eng Comp II 3 hrs
FSS 2068 Food Service Operations Management 3 hrs
HFT 3261 Restaurant Management 3 hrs
HFT 3940 Internship I 1 hr

Sophomore Year
Fall
HFT 4284 Training and Employee Performance in the Food Service Industry 3 hrs
FSS 2221C Quantity Food Preparation 3 hrs
HFT 3933 Distinguished Lectures in Hospitality Mgmt 1 hr
Spring
FSS 2225C Culinary Arts Production I 3 hrs
HFT 4284 Training and Employee Performance in the Food Service Industry 3 hrs
FSS 2221C Quantity Food Preparation 3 hrs
HFT 3933 Distinguished Lectures in Hospitality Mgmt 1 hr

Junior Year
Fall
HFT 4284 Training and Employee Performance in the Food Service Industry 3 hrs
FSS 2221C Quantity Food Preparation 3 hrs
HFT 3933 Distinguished Lectures in Hospitality Mgmt 1 hr
Spring
HFT 4284 Training and Employee Performance in the Food Service Industry 3 hrs
FSS 2221C Quantity Food Preparation 3 hrs
HFT 3933 Distinguished Lectures in Hospitality Mgmt 1 hr

Senior Year
Fall
HFT 4284 Training and Employee Performance in the Food Service Industry 3 hrs
FSS 2221C Quantity Food Preparation 3 hrs
HFT 3933 Distinguished Lectures in Hospitality Mgmt 1 hr
Spring
HFT 4284 Training and Employee Performance in the Food Service Industry 3 hrs
FSS 2221C Quantity Food Preparation 3 hrs
HFT 3933 Distinguished Lectures in Hospitality Mgmt 1 hr

Dean: Abraham Pizam
### UCF Degree Programs

#### College of Education

**Department of Teaching and Learning Principles**

**ED 209**

**http://www.education.ucf.edu/**

**Program Coordinator:** Dr. Aldrin Sweeney

E-mail: asweeney@pegasus.cc.ucf.edu

**ED 123-L, 407-823-2561**

#### Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e., an AA degree from an approved Florida community college or state university.
- Have a minimum 2.5 GPA.
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses.

#### Degree Requirements

- Students should see an advisor prior to registering for classes. The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

**1. UCF General Education Program**

<table>
<thead>
<tr>
<th>Term</th>
<th>15 Hrs</th>
<th>Fall</th>
<th>15 Hrs</th>
<th>Spring</th>
<th>15 Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>3 hrs</td>
<td>ENC 1101 Composition I</td>
<td>ENC 1102 Composition II</td>
<td>Select SPC 1600 Fundamentals of Oral Communication</td>
<td></td>
</tr>
<tr>
<td>B. Cultural-Historical Foundations</td>
<td>3 hrs</td>
<td>Select AMH 2010 U.S. History 1492-1877</td>
<td>Select AMH 2020 U.S. History 1877-Present</td>
<td>Select PHI 2010 Introduction to Philosophy</td>
<td></td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>3 yrs</td>
<td>Select MGF 1106 Finite Mathematics</td>
<td>Select one: STA 1006C Basic Statistics or STA 2014C Principles of Statistics</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**2. Common Program Prerequisites**

<table>
<thead>
<tr>
<th>Term</th>
<th>15 Hrs</th>
<th>Fall</th>
<th>15 Hrs</th>
<th>Spring</th>
<th>15 Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communications</td>
<td>9 hrs</td>
<td>ENC 1101 Composition I</td>
<td>ENC 1102 Composition II</td>
<td>SPC 1600 Fundamentals of Oral Communication</td>
<td></td>
</tr>
</tbody>
</table>

**B. Humanities**

<table>
<thead>
<tr>
<th>Program</th>
<th>Course</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 2010</td>
<td>Introduction to Philosophy</td>
<td>6 hrs</td>
</tr>
</tbody>
</table>

**C. Mathematics**

<table>
<thead>
<tr>
<th>Program</th>
<th>Course</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**D. Social Science/History**

<table>
<thead>
<tr>
<th>Program</th>
<th>Course</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMH 2010</td>
<td>U.S. History 1492-1877</td>
<td>12 hrs</td>
</tr>
</tbody>
</table>

**E. Science**

<table>
<thead>
<tr>
<th>Program</th>
<th>Course</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2010C</td>
<td>Biology I w/Lab</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

**F. Education Courses**

<table>
<thead>
<tr>
<th>Program</th>
<th>Course</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 4214</td>
<td>Classroom Learning Principles</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**G. Diversity Courses**

**H. Other Program Prerequisites**

**3. Education Core Requirements**

<table>
<thead>
<tr>
<th>Program</th>
<th>Course</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCE 4360</td>
<td>Science Instructional Analysis</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

**4. Internship I Block**

<table>
<thead>
<tr>
<th>Program</th>
<th>Course</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESE 3940</td>
<td>Internship I</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**5. Specialization Requirements**

<table>
<thead>
<tr>
<th>Program</th>
<th>Course</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESE 3940</td>
<td>Internship I</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**6. Restricted Elective**

<table>
<thead>
<tr>
<th>Program</th>
<th>Course</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>One 3000- or 4000- level BSC, MCB, PCB, or ZOO course with advisor's approval</td>
<td>3 hrs</td>
<td></td>
</tr>
</tbody>
</table>
7. Internship II (ESE4943) (12 hrs)
- SCE 4360 and at least 80% of all required biology courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

8. Foreign Language Requirements (0-8 hrs)
State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

9. Departmental Exit Requirements
- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

11. Total Program Semester Hours Required 126 hours
At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

12. Recommended Four-Year Sequence of Courses

<table>
<thead>
<tr>
<th>Fresman Year</th>
<th>Fall</th>
<th>(12 hrs)</th>
<th>Spring</th>
<th>(15 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 2005</td>
<td>3 hrs</td>
<td>EDG 2701</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>ENC 1101</td>
<td>3 hrs</td>
<td>ENC 1102</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>MGF 1106</td>
<td>3 hrs</td>
<td>MAC 1105</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>PSY 2012</td>
<td>3 hrs</td>
<td>PHI 2010</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>Summer</td>
<td>(6 hrs)</td>
<td>PSC 1121</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>EME 2240</td>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POS 2041</td>
<td>3 hrs</td>
<td></td>
<td></td>
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<table>
<thead>
<tr>
<th>Sophomore Year</th>
<th>Fall</th>
<th>(17 hrs)</th>
<th>Spring</th>
<th>(16 hrs)</th>
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</thead>
<tbody>
<tr>
<td>AMH 2010</td>
<td>3 hrs</td>
<td>AMH 2020</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>BSC 2010C w/ lab</td>
<td>4 hrs</td>
<td>BSC 201C</td>
<td>4 hrs</td>
<td></td>
</tr>
<tr>
<td>CHM 2045C</td>
<td>4 hrs</td>
<td>CHM 2046</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>SPC 1600</td>
<td>3 hrs</td>
<td>CHM 206L</td>
<td>1 hr</td>
<td></td>
</tr>
<tr>
<td>STA 2014C</td>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summer</td>
<td>(6 hrs)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AST 2002</td>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARH 2050 or</td>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUL 2010 or</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THE 2000 or</td>
<td></td>
<td></td>
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<tr>
<td>FIL 2400</td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Junior Year</th>
<th>Fall</th>
<th>(14 hrs)</th>
<th>Spring</th>
<th>(12 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 4214</td>
<td>3 hrs</td>
<td>MCB 3020C</td>
<td>5 hrs</td>
<td></td>
</tr>
<tr>
<td>EDG 4323</td>
<td>3 hrs</td>
<td>PCB 3063</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>PCB 3044</td>
<td>3 hrs</td>
<td>PCB 3063L</td>
<td>1 hr</td>
<td></td>
</tr>
<tr>
<td>PCB 3044L</td>
<td>1 hr</td>
<td>TSL 4080</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>Summer</td>
<td>(3 hrs)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LAE 4361</td>
<td>3 hrs</td>
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</table>

<table>
<thead>
<tr>
<th>Senior Year</th>
<th>Fall</th>
<th>(13 hrs)</th>
<th>Spring</th>
<th>(12 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 4603</td>
<td>3 hrs</td>
<td>ESE 4943</td>
<td>12 hrs</td>
<td></td>
</tr>
<tr>
<td>ESE 3940</td>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCE 4360</td>
<td>4 hrs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper div restricted elect</td>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(BSC/PCB/PCB/PCB/ZOO 3/4XXX)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SCIENCE EDUCATION - CHEMISTRY (B.S.)**

**College of Education**

**Department of Teaching and Learning Principles**

**ED209**

**http://www.education.ucf.edu/**

**Program Coordinator:** Dr. Aldrin Sweeney

**ED 123-L, 407-823-2561**

**E-mail:** asweeney@pegasus.cc.ucf.edu

**Admission Requirements**

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses

**Degree Requirements**

- Students should see an advisor prior to registering for classes
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

**1. UCF General Education Program** (37 hrs)

<table>
<thead>
<tr>
<th>A. Communication Foundations</th>
<th>(9 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td></td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td></td>
</tr>
<tr>
<td>Select SPC 1600 Fundamentals of Oral Communication</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B. Historical Foundations</th>
<th>(9 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select AMH 100 U.S. History 1492-1877</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select AMH 200 U.S. History 1877-Present</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select PHI 2010 Introduction to Philosophy</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C. Mathematical Foundations</th>
<th>(6 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select MGF 1106 Finite Mathematics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select one:</td>
<td></td>
</tr>
<tr>
<td>STA 1060C Basic Statistics using MS Excel or</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 2014C Principles of Statistics</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D. Social Foundations</th>
<th>(6 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prefer POS 2041 American National Government</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select PHI 202 General Psychology</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E. Science Foundations</th>
<th>(7 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 2053C College Physics (includes lab)</td>
<td>4 hrs</td>
</tr>
<tr>
<td>Prefer Select one:</td>
<td></td>
</tr>
<tr>
<td>AST 202 Astronomy</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GEO 1200 Physical Geography</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GLY 1030 Geology and its Applications</td>
<td>3 hrs</td>
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</table>

**2. Common Program Prerequisites** (23 hrs)

<table>
<thead>
<tr>
<th>A. Communications</th>
<th>(9 hrs)</th>
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</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>GEP</td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td>GEP</td>
</tr>
<tr>
<td>SPC 1600 Fundamentals of Oral Communication</td>
<td>GEP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B. Humanities</th>
<th>(6 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 2010 Introduction to Philosophy</td>
<td>GEP</td>
</tr>
<tr>
<td>Select one:</td>
<td></td>
</tr>
<tr>
<td>ARH 2050 The History of Art I or</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ARH 2051 The History of Art II or</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MUL 2010 Enjoyment of Music or</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 2000 Theatre Survey or</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIL 2400 History of Motion Pictures</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C. Mathematics</th>
<th>(9 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 1105 College Algebra</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGF 1106 Finite Mathematics</td>
<td>GEP</td>
</tr>
<tr>
<td>One of the following (per GEP)</td>
<td>GEP</td>
</tr>
<tr>
<td>STA 1060C Basic Statistics using MS Excel or</td>
<td>GEP</td>
</tr>
</tbody>
</table>
SCIENCE EDUCATION - PHYSICS (B.S.)

College of Education

Department of Teaching and Learning Principles,
ED 209
http://www.education.ucf.edu/
Program Coordinator: Dr. Aldrin Sweeney
ED 123-L, 407-823-2561
E-mail: asweeney@pegasus.cc.ucf.edu

Table 1-13: Recommended Four-Year Sequence of Courses

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sophomore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Junior</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
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<tr>
<td>Spring</td>
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<tr>
<td>Senior</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12. Total Program Semester Hours Required: 127 hrs

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

13. Recommended Four-Year Sequence of Courses

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college.

- Complete the Florida Teacher Certification Program.

- Pass all applicable sections of the Florida Teacher Certification Examination.

11. University Minimum Exit Requirements

- A 2.0 UCF GPA

- 60 semester hours earned after CLEP awarded

- 48 semester hours of upper division credit completed

- 30 of the last 36 hours of course work must be completed in residency at UCF

- 25% of course work must be completed in residency at UCF

- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)
nty college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

Degree Requirements
- Students should see an advisor prior to registering for classes
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

A. Communication Foundations (9 hrs)
- ENC 1101 Composition I 3 hrs
- ENC 1102 Composition II 3 hrs
- SPC 1600 Fundamentals of Oral Communication 3 hrs

B. Cultural-Historical Foundations (9 hrs)
- Select AMH 2010 U.S. History 1492-1877 3 hrs
- Select AMH 2020 U.S. History 1877-Present 3 hrs
- Select PHI 2010 Introduction to Philosophy 3 hrs

C. Mathematical Foundations (6 hrs)
- Select MAC 1105 College Algebra 3 hrs
- Select one: 3 hrs
- STA 1000C Basic Statistics using MS Excel or STA 2014C Principles of Statistics

D. Social Foundations (6 hrs)
- Prefer POS 2041 American National Government 3 hrs
- Select PSY 2012 General Psychology 3 hrs

E. Science Foundations (6 hrs)
- Select PHY 2048 Physics for Engineers & Scientists I 3 hrs
- Select one: 3 hrs
- AST 2002 Astronomy or GEO 1200 Physical Geography or GLY 1030 Geology and its Applications

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (21 hrs)

A. Communications (9 hrs)
- ENC 1101 Composition I GEP
- ENC 1102 Composition II GEP
- SPC 1600 Fundamentals of Oral Communication GEP

B. Humanities (6 hrs)
- PHI 2010 Introduction to Philosophy GEP
- Select one: 3 hrs
- ARH 2050 The History of Art I or ARH 2051 The History of Art II or MUL 2010 Enjoyment of Music or THE 2000 Theatre Survey or FIL 2400 History of Motion Pictures

C. Mathematics (10 hrs)
- MAC 1105 College Algebra GEP
- MAC 2311 Calculus with Analytic Geometry I GEP
- One of the following (per GEP) GEP
- STA 1000C Basic Statistics using MS Excel or STA 2014C Principles of Statistics

D. Social Science/History (12 hrs)
- AMH 2010 U.S. History 1492-1877 GEP
- AMH 2020 U.S. History 1877-Present GEP
- POS 2041 American National Government GEP
- PSY 2012 General Psychology GEP

E. Science (11 hrs + lab)
- BSC 2010C Biology I w/Lab 4 hrs
- PHY 2048 Physics for Engineers & Scientists I GEP
- PHY 2048L Physics Lab for Eng. & Scientists I GE
- PHY 3102 Astronomy or GEO 1200 Physical Geography or GLY 1030 Geology and its Applications

F. Education Courses (9 hrs)
- EDF 2005 Introductions to Education 3 hrs
- EDG 2701 Teaching Diverse Populations 3 hrs
- EME 2040 Technology for Educators 3 hrs

G. Diversity Courses GEP

3. Education Core Requirements (15 hrs)
- EDG 4223 Professional Teaching Practices 3 hrs
- EDF 4603 Analysis of Critical Issues in Education 3 hrs
- EDF 4214 Classroom Learning Principles 3 hrs
- TSL 4080 Theory and Practice of Teaching ESOL 3 hrs
- Students in Schools
- LAE 4361 Literacy Strategies for Mid/High School 3 hrs

4. Internship I Block (7 hrs)
- SCE 4360 Science Instructional Analysis 4 hrs
- ESE 3940 Internship I 3 hrs

- Program Internship I Prerequisites: ESE 4323 and at least 50% of all required chemistry courses must be completed prior to Internship I with a minimum grade of "C-" in all of these prerequisite courses.

- See additional requirements listed under College of Education, Office of Clinical Experiences

5. Specialization Requirements (26 hrs)

- BSC 2010C Biology I CPP
- CHM 2045C Chemistry Fundamentals I 4 hrs
- CHM 2046 Chemistry Fundamentals II 3 hrs
- CHM 2046L Chemistry Fundamentals Lab 1 hr
- MAC 2311 Calculus w/Analytic Geometry I GEP
- MAC 2312 Calculus w/Analytic Geometry II 4 hrs
- MAC 2313 Calculus w/Analytic Geometry III 4 hrs
- PHY 2048 Physics for Scientists I GEP
- PHY 2048L Physics Lab for Engineers & Scientists I CPP
- PHY 2049 Physics for Scientists II 3 hrs
- PHY 2049L Physics Lab for Engineers & Scientists II 1 hr
- PHY 5101 Physics for Engineers & Scientists III 3 hrs
- PHY 3752C Physics of Scientific Instruments 3 hrs

6. Restricted Electives (8 hrs)
- 3000- or 4000-level PHY or PHZ courses with advisor's approval

7. Internship II (ESE4943) (12 hrs)
- SCE 4360 and at least 80% of all required physics courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

8. Foreign Language Requirements (0-8 hrs)
- State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

9. Departmental Exit Requirements
- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

11. Fall Semester Hours Required 125 hours

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

12. Recommended Four-Year Sequence of Courses

Freshman Year

Fall (12 hrs) Spring (16 hrs)
- EDF 2005 3 hrs AST 2002 3 hrs
- ENC 1101 3 hrs EDF 2701 3 hrs
- MAC 1105 3 hrs ENC 1102 3 hrs
- PSY 2012 3 hrs MAC 2311 4 hrs

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Students who change degree programs and select this major, must adopt the most current catalog.

Admission Requirements: Students must have declared a Social Sciences major at least one semester before graduation.

Degree Requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have declared a Social Sciences major at least one semester before graduation.
- Co-op and internship credit cannot be used in this major.
- Independent study forms must be approved by the director prior to taking an independent study for use in the Restricted Elective section.
- Non-approved independent studies will not be counted towards the major.
- Students must earn at least a “C” (2.0) in each core requirement and restricted elective course.
- Students should consult with a Liberal Studies advisor when entering the program.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 3 hrs
Select MAC 1105 College Algebra (or higher) 3 hrs
Select STA 2023 Statistical Methods I 3 hrs
D. Social Foundations 3 hrs
Select ECO 2013 or POS 2041, depending on concentration to be followed 3 hrs
Select PSY 2012 or SYG 2000, depending on concentration to be followed 3 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites (6 hrs)

Select no more than two lower level Social Science courses in any one area in the Restricted Elective section.

* Asterisk indicates appropriate courses in the Restricted Electives section.

3. Core requirements (3 hrs)

Select one course

POS 3703 Scope and Methods of Political Science 3 hrs
PSY 3213C Research Methods in Psychology 3 hrs
SYA 4300 Research Methods (Sociology) 3 hrs

4. Restricted Electives (60 hrs)

Select a minimum of 15 semester hours in each of four of the following six Social Science disciplines.

A. Communication

Select one course

COM 3311 Communication Research Methods 3 hrs
RTV 4403 Electronic Media, Tech, & Soc 3 hrs

B. Economics

Select one course

* ECO 2013 Principles of Macroeconomics 3 hrs
* ECO 2023 Principles of Microeconomics 3 hrs
Select one course from the Economics courses 9 hrs

C. Political Science

Select one course

* POS 2041 American National Government 3 hrs
Select one course from the Political Science courses 12 hrs

D. Psychology

Select one course

* PSY 2012 General Psychology 3 hrs
PPE 3003 Personality Theory 3 hrs
Select one course from the Psychology courses 9 hrs

E. Public Affairs

Select one course

CCJ 3024 Criminal Justice System 3 hrs
JOU 3004 History of American Journalism 3 hrs

F. Sociology/Anthropology

Select one course

* SYG 2000 General Sociology 3 hrs
* ANT 2003 General Anthropology 3 hrs
Select one course from the Sociology/Anthropology courses 9 hrs

5. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in each of four Social Science disciplines.
- Computer Competency is met by the major.

6. Foreign Language Requirements

Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement (see a Liberal Studies advisor).

7. Electives (variable)

Select primarily from upper level courses, with a Liberal Studies advisor’s approval.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required 120 hours
Related Programs: Liberal Studies, Liberal Arts
Related Minors: Anthropology, Communication, Economics, Political Science, Psychology, Public Administration, Sociology

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.
- Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- Any two introductory Social Sciences courses could meet admission requirements. However, the indicated courses are prerequisites for subsequent courses and must be taken.

SOCIAL SCIENCE EDUCATION (B.S.)
College of Education
Department of Teaching and Learning Principles, ED 209
http://pegasus.cc.ucf.edu/~wgaudell
Program Coordinator: Dr. William Gaudelli
ED 115-H, 407-823-0215
E-mail: wgaudell@mail.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e., an AA degree from an approved Florida community college or state university.
- Have a minimum 2.5 overall GPA.
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses.

Degree Requirements
- Students should see an advisor prior to registering for classes.
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
      ENC 1101 Composition I 3 hrs
      Select SPC 1600 Fundamentals of Oral Communication 3 hrs
      Select AMH 2010 U.S. History 1492-1877 or AMH 2020 U.S. History 1877-Present 3 hrs
      Select PHI 2010 Introduction to Philosophy 3 hrs
   B. Cultural-Historical Foundations (9 hrs)
      Select MGF 1106 Finite Mathematics 3 hrs
      Select one:
      STA 1060C Basic Statistics using MS Excel or STA 2045C Principles of Statistics 3 hrs
   C. Mathematical Foundations (6 hrs)
      Select one:
      STA 1060C Basic Statistics using MS Excel or STA 2045C Principles of Statistics 3 hrs
      Select SPC 1600 Fundamentals of Oral Communication 3 hrs
   D. Social Foundations (6 hrs)
      Prefer POS 2041 American National Government 3 hrs
      Select PSY 2012 General Psychology 3 hrs
   E. Science Foundations (6 hrs)
      Prefer PSC 1121 Physical Science or BSC 1005 Biological Principles 3 hrs
      Select one:
      ANT 2511 The Human Species or ESE 3940 Internship I 3 hrs

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (25 hrs)
   A. Communications (9 hrs)
      ENC 1101 Composition I 3 hrs
      ENC 1102 Composition II 3 hrs
      Select SPC 1600 Fundamentals of Oral Communication 3 hrs
   B. Humanities (6 hrs)
      Select one:
      PHI 2010 Introduction to Philosophy or ARH 2050 History of Western Art I or ARH 2051 History of Western Art II or MUL 2010 Enjoyment of Music or THE 2000 Theatre Survey or FIL 2400 History of Motion Pictures 3 hrs

3. Education Core Requirements (15 hrs)
   EDG 4323 Professional Teaching Practices 3 hrs
   EDF 4603 Analysis of Critical Issues in Education 3 hrs
   EDF 4214 Classroom Learning Principles 3 hrs
   TSL 4080 Theory and Practice of Teaching ESOL 3 hrs

4. Internship I Block (7 hrs)
   SSE 4361 Internship I 3 hrs
   SSE 4361 should be taken concurrently with ESE 3940

5. Specialization Requirements (27 hrs)
   EUE 2000 Western Civilization I 3 hrs
   EUE 2001 Western Civilization II 3 hrs
   AMH 2010 US History 1492-1877 3 hrs
   AMH 2020 US History 1877-Present 3 hrs
   SYG 2000 General Sociology 3 hrs
   ECO 2013 Macroeconomics 3 hrs
   ECO 2023 Microeconomics 3 hrs
   GEQ 3471 World Political Geography 3 hrs
   Upper Division Non-Western History Elective: 3 hrs
   Upper Division Political Science Electives: 6 hrs
   SSE 3940 Internship I 3 hrs

6. Internship II (ESE4943) (12 hrs)
   SSE 4361 and at least 80% of all social science courses must be completed prior to doing Internship II
   SSE 4361 should be taken concurrently with ESE 3940

7. Foreign Language Requirements (0-8 hrs)
   State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)
8. Departmental Exit Requirements
   ■ Achieve a minimum 2.5 GPA in all courses within the major.
   ■ Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
   ■ Pass all applicable sections of the Florida Teacher Certification Examination.

9. University Minimum Exit Requirements
   ■ A 2.0 UCF GPA
   ■ 60 semester hours earned after CLEP awarded
   ■ 48 semester hours of upper division credit completed
   ■ 30 of the last 36 hours of course work must be completed in residency at UCF
   ■ 25% of course work must be completed in residency at UCF
   ■ Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

10. Total Program Semester Hours Required 122 hrs
   At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

11. Recommended Sequence of Program Courses:
   **Freshman Year**
   **Fall** (12 hrs) **Spring** (15 hrs)
   - EDF 2005 3 hrs
   - ENC 1101 3 hrs
   - MGF 1108 3 hrs
   - PSY 2012 3 hrs
   - Summer (6 hrs)
   - EME 2040 3 hrs
   - SPC 1500 3 hrs
   **Sophomore Year**
   **Fall** (16 hrs) **Spring** (15 hrs)
   - AMH 2010 3 hrs
   - ECO 2013 3 hrs
   - PSC 1121 3 hrs
   - PSC 1121L 1 hr
   - STA 2014C 3 hrs
   - SYG 2000 3 hrs
   - Summer (3 hrs)
   - ARH 2050 or 3 hrs
   - MUL 2010 or 3 hrs
   - THE 2000 or 3 hrs
   - FIL 2400 3 hrs
   **Junior Year**
   **Fall** (15 hrs) **Spring** (13 hrs)
   - EDF 4214 3 hrs
   - EDG 4023 3 hrs
   - EUH 2000 3 hrs
   - Upper Div Non-Western 3 hrs
   - Hist Elect (APH/ASH/SLAH 3/4XXX)
   - Upper Div Political 3 hrs
   - Sci Elect (POS 3/4XXX)
   - Summer (3 hrs)
   - EUH 2001 3 hrs
   **Senior Year**
   **Fall** (12 hrs) **Spring** (12 hrs)
   - EDF 4603 3 hrs
   - LAE 4361 3 hrs
   - TSL 4080 3 hrs
   - Upper Div Am Hist elective (AMH 3/4XXX)
   - SOW 4232 Social Welfare Policies and Issues 3 hrs

**SOCIAL WORK (B.S.W.)**
College of Health and Public Affairs
HPA1 204, 407-823-2114
http://www.coha.ucf.edu/social/
Director: Mary Van Hook
Undergraduate Program Coordinator: Robin Kohn
E-mail: rkohn@mail.ucf.edu
Children's Services Certificate: This certificate is designed to prepare students to work with children and families who are facing issues of abuse or neglect, or are involved in some way with the child welfare system. The certificate includes both classroom academic work and a specialized field internship. The program is a joint effort between the Schools of Social Work in Florida and the Department of Children and Families to improve services to children and their families.

Addictions Certificate: This certificate is open only to students in the undergraduate social work program (BSW). The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers.

Addictions have a profound impact on the lives of many people, their families, and their communities. Students will learn about patterns of addictions in society and prevention and intervention strategies. The certificate program includes academic work through courses in social work skills in the area of addictions. The certificate program and/or the addiction specific courses will enable students to earn credit toward their certification through the Certification Board for Addiction Professionals of Florida.

Related Minors: Health Services Administration, Aging Studies, Psychology, Sociology

Honors in the Major Requirements
1. Complete a three-credit directed reading course/or a three-credit COHPA1nterdisciplinary Honor course.
2. Complete a three-credit thesis course.
3. Earn a 3.5 GPA in your Social Work major.
4. Earn a cumulative 3.2 GPA in your total UCF courses.
5. Complete 60 hours of college credit, including 12 upper division hours at UCF.

Transfer Notes:
Community College Equivalent courses for prerequisites: any course in the following areas (3 hrs each)
American Government or American National Government Biology (Human Biology or Anatomy and Physiology)
Economics (Microeconomics or Macroeconomics)
Introductory Psychology
Introductory Sociology
Principles of Statistics

Tentative Course Schedule for Entering Freshmen

Freshman Year*

Fall  14 hrs  Spring  15 hrs
ENC 1101  3  ENC 1102  3
BSC 1005 or MCB 1310  3  MGF 1106  3
SYG 2000 or PSY 2012  3  PSY 2012 or SYG 2000  3
STA2014C  3  MUL 2010 or THE 2000  3
PAS 2102  2  or REL 2300 or PHI 2010  3
POS 2041  3

Sophomore Year

Fall  15/16 hrs  Spring  15/16 hrs
ECO 2013 or ECO 2023  3  Foreign Lang II or
or 3/4
Foreign Lang I or
or 3/4
AMH 2010  3

Election 3

Elective 3 or

AST 2002  3

SPC 1600  3

Elective 3

Foreign Lang I or Cult Diversity 3/4

or

or

or

or

or

HUM 2230 or AMH 2020  3

Elective 3

Senior Year

Fall  15 hrs  Spring  16 hrs
SOW 3104  3  SOW 4510  9
SOW 3203  3  SOW 4522  3
SOW 3300  3  SOW 4523  3
SOW Elective 3

Election 3

Election 3

Election 3

Election 3

SOCIOLGY (B.A.)

College of Sciences
Department of Sociology and Anthropology
PH 403, 407-823-2227
http://www.cas.ucf.edu/soc_anthro
E-mail: sociology@ucf.edu

J. Corzine, 407-823-2227

The Sociology curriculum emphasizes critical examination of various components of society. The purpose of the curriculum is to increase students' social awareness and their abilities to employ a sociological perspective to interpret social institutions and behavior.
UCF Degree Programs

Admission Requirements:
- none

Degree Requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 30 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Sociology and Anthropology Department.
- Students must maintain a UCF GPA of at least 2.0 in all courses used for the major.
- Students must have a “C” (2.0) or higher in all core courses.
- Co-op credit cannot be used in this major.
- Students should consult annually with a departmental advisor.
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural and Historical Foundations 9 hrs
   - C. Mathematical Foundations 3 hrs
   - D. Social Foundations 3 hrs
   - E. Science Foundations 6 hrs

2. Common Program Prerequisites (variable)
   - none
   - (It is suggested that transfer students complete two lower-level courses with the prefix SYA, SYD, SYG, SYO, or SYP.)

3. Core requirements (15 hrs)
   - SYG 2000 General Sociology GEP
   - SYA 3400 Research Methods and Statistics 4 hrs
   - SYA 4300 Research Methods 4 hrs
   - SYA 4450 Data Analysis 4 hrs
   - SYA 3110 Development of Social Thought 3 hrs

4. Restricted Electives (27 hrs)
   - Select from the following
     - SYG 2000 General Sociology
     - SYA 3120 Modern Sociological Thought
     - SYA 4650CC Applied Sociology
     - SYA 5625 Seminar on Domestic Violence
     - SYA 5937 Advanced Population
     - SYA 5700 Urban Sociology
     - SYA 5700 Race & Ethnic Minorities in the US
     - SYA 5930 Sex Roles in Modern Society
     - SYA 4020 Anthropology
     - SYA 4510 Environmental Sociology
     - SYA 4810 Women in Contemporary Society
     - SYA 4813 Women and Social Policy
     - SYA 3110 Sociology of Media
     - SYA 3120 Modern Sociological Thought
     - SYA 4650CC Applied Sociology
     - SYA 5625 Seminar on Domestic Violence
     - SYA 5937 Advanced Population
     - SYA 5700 Urban Sociology
     - SYA 5700 Race & Ethnic Minorities in the US
     - SYA 5930 Sex Roles in Modern Society
     - SYA 4020 Anthropology
     - SYA 4510 Environmental Sociology
     - SYA 4810 Women in Contemporary Society
     - SYA 4813 Women and Social Policy
     - SYA 3110 Sociology of Media
   - SYA 5937 Advanced Population
   - SYA 5700 Urban Sociology
   - SYA 5700 Race & Ethnic Minorities in the US
   - SYA 5930 Sex Roles in Modern Society
   - SYA 4020 Anthropology
   - SYA 4510 Environmental Sociology
   - SYA 4810 Women in Contemporary Society
   - SYA 4813 Women and Social Policy
   - SYA 3110 Sociology of Media

5. Departmental Exit Requirements
   - A minimum GPA of 2.0 in all courses used for the major.
   - A minimum grade of “C” (2.0) in all core courses.
   - Computer Competency met by SYA 4450.
   - Students will be required to take a standard exit exam.

6. Foreign Language Requirements (0-8 hrs)
   - Admission: Met by graduation requirement.
   - Graduation: Proficiency equivalent to 2 semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.
   - The third semester may be replaced by a departmentally approved enhancement course. See the department for the list of courses.

7. Enhancement Requirement (0-3 hrs)
   - Demonstrate proficiency equivalent to a third semester of a language, or complete an Enhancement course on the list maintained by the department.

8. Electives (variable)
   - Select primarily from upper level courses, with departmental advisor’s approval. These courses may be outside of the department.

9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded.
   - 48 semester hours of upper division credit completed.
   - 30 of the last 36 hours of coursework must be completed in residency at UCF.
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required: 120 hours

Related Programs: Anthropology, Criminal Justice

Related Minors: African-American Studies, American Studies, Anthropology, Anthropology in Multicultural Studies, Asian Studies, Canadian Studies, Judaic Studies, Latin American Studies, Russian Area Studies, Sociology, and Women’s Studies

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:
- One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer
- Math test See catalog
- 0

Freshman Year

Fall
- ENC 1101 Composition I 3
- MAC 1105* req# 1C1-GEP 3
- SYG 2000 General Sociology 3
- SPN 1120* req# Lang/Elect 4
- 12

Spring
- ENC 1102 Composition II 3
- STA 2004C Prin of Statistics 3
- SYG 2010 Social Problems 3
- SPN 1121* req# Lang/Elect 4
## SPANISH (B.A.)

### College of Arts and Humanities

Department of Modern Languages & Literatures, CNH 523

http://pegasus.cc.ucf.edu/~forlang

E-Mail: modernlanguage@ucf.edu

P. Giordano, 407-823-2472

### Admission Requirements
- None

### Placement in Language courses

- Placement in language courses is based on one year of high school language being equivalent to one semester of college work. For example, four years of high school Spanish place the student in the first semester of the third year.

- Native Spanish speakers, near-native Spanish speakers, or students who have received advanced education abroad must substitute select classes.

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.

- 36 credits in Spanish must be taken at the 3000 level or above

- At least 6 of the 36 Spanish credits must be at the 4000 level

- At least 30 hours must be taken in Modern Language courses taught in Spanish

- Students must earn at least a "C" (2.0) in each upper division Spanish course

- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and Literatures

- Language credit by exam will not be given in courses lower in level than those in which students are presently enrolled. Native speakers will be allowed Credit by Examination in literature courses only.

- Co-op or internship credit cannot be used in this major

- Students must see their departmental advisor to obtain proper counseling and have their schedule approved before registering for courses in their major

- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

### 1. UCF General Education Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>6 hrs</td>
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<tr>
<td>D. Social Foundations</td>
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### 2. Common Program Prerequisites

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<th>Hours</th>
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<tr>
<td>SPN 1120</td>
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<td>SPN 2200</td>
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<tr>
<td>SPN 2201</td>
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### 3. Core Requirements

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<th>Hours</th>
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<tbody>
<tr>
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<tr>
<td>SPN 3420</td>
<td>3 hrs</td>
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<tr>
<td>SPN 3760</td>
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### 4. Upper Division Restricted Electives

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<tr>
<th>Course</th>
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<tbody>
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<tr>
<td>SPN 3530</td>
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### 5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or higher in at least 36 hours of upper division Spanish courses
- Students are required to satisfactorily complete a departmental exit exam. The exam is offered each September and February; students should discuss the optimal test date with their advisor.
- Computer Competency met by CGS 1060C or equivalent

### 6. Foreign Language Requirements

<table>
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<th>Course</th>
<th>Hours</th>
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</thead>
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</table>

### 7. Electives

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### Total Semester Hours Required

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120 hrs</td>
</tr>
</tbody>
</table>

### Related Programs:

- French, Modern Language Combination
- Related Minors: French, Italian, Judaic Studies, Latin American Studies, Spanish

### Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated by the department chair for equivalency credit. The student must provide all supporting information.
- Native speakers, or students who have received advanced education in Spanish-speaking societies, may not take lower division Spanish courses. They must substitute Third-year level composition and conversation courses.
**UCF Degree Programs**

**Suggested Plan of Study:**
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 2000* req#1 102-GE 3</td>
<td>ENC 1101 Composition I 3</td>
<td>ENC 1102 Composition II 3</td>
</tr>
<tr>
<td>ENC 1101 Composition I 3</td>
<td>EDC 1000* req# 1A-GE 3</td>
<td>EDC 1001* req# 1B-GE 3</td>
</tr>
<tr>
<td>MGF 1008* req# 1C-GE 3</td>
<td>SPN 1121* req# 2-GE 3</td>
<td>SPN 1220* req# 2-GE 3</td>
</tr>
<tr>
<td>Elective* Check restrictions 3</td>
<td>Elective* Check restrictions 3</td>
<td>Elective* Check restrictions 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sophomore Year</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMH 2050* req# 1B3-GE 3</td>
<td>BSC 1005* req# 1E-GE 3</td>
<td>BSC 1006* req# 2-GE 3</td>
</tr>
<tr>
<td>POS 2041* req# 1D-GE 3</td>
<td>MUL 2010* req# 1B2-GE 3</td>
<td>MUL 2011* req# 2-GE 3</td>
</tr>
<tr>
<td>PSC 1121* req# 1E1-GE 3</td>
<td>SPW 3100* req# 1A-GE 3</td>
<td>SPW 3101* req# 2-GE 3</td>
</tr>
<tr>
<td>SPN 2200* req# 2-GE 3</td>
<td>Elective* Check restrictions 3</td>
<td>Elective* Check restrictions 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Junior Year</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPN 3300 Adv Spa Gram Comp 3</td>
<td>SPW 3101* req# 1-GE 3</td>
<td>SPW 3102* req# 2-GE 3</td>
</tr>
<tr>
<td>SPN 3420 Spanish Comp 3</td>
<td>SPN 4780* req# 1A-GE 3</td>
<td>SPN 4781* req# 2A-GE 3</td>
</tr>
<tr>
<td>SPN 3760 Adv Spa Oral Com 3</td>
<td>SPN 3141* req# 1B-GE 3</td>
<td>SPN 3142* req# 2B-GE 3</td>
</tr>
<tr>
<td>Elective* Check restrictions 3</td>
<td>Elective* Check restrictions 3</td>
<td>Elective* Check restrictions 3</td>
</tr>
<tr>
<td>Elective* Check restrictions 3</td>
<td>Elective* Check restrictions 3</td>
<td>Elective* Check restrictions 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior Year</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPN 4750* req# 4B-GE 3</td>
<td>SPW 3102* req# 1-GE 3</td>
<td>SPW 3103* req# 2-GE 3</td>
</tr>
<tr>
<td>SPN 4520* req# 4C-ResElec 3</td>
<td>SPW 4380* req# 1A-GE 3</td>
<td>SPW 4381* req# 2A-GE 3</td>
</tr>
<tr>
<td>SPN 4760* req# 4D-ResElec 3</td>
<td>SPN 4410* req# 1A2-GE 3</td>
<td>SPN 4411* req# 2A2-GE 3</td>
</tr>
<tr>
<td>Elective* Check restrictions 3</td>
<td>Elective* Check restrictions 3</td>
<td>Elective* Check restrictions 3</td>
</tr>
<tr>
<td>Elective* Check restrictions 3</td>
<td>Elective* Check restrictions 3</td>
<td>Elective* Check restrictions 3</td>
</tr>
</tbody>
</table>

**SPORTS AND FITNESS (B.S.)**

**College of Education**

**Department of Teaching and Learning Principles, ED209**

http://pegassus.cc.ucf.edu/~sportfit/

**Program Coordinator:** Dr. Michael Kehoe

UCF at South Lake, Bldg 2, Room 316, 352-536-2179

E-mail: mkehoe@mail.ucf.edu

(This program is only offered at UCF at South Lake)

**Admission Requirements**

- Complete the University General Education Requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university; or the AS degree from the affiliated program at Lake Sumter Community College.
- Have a minimum 2.0 overall GPA.
- Meet the University CLAST or CLAST alternative criteria.
- Complete prerequisite courses.

**Degree Requirements**

- Students should consult with an advisor on a regular basis and prior to registration.
- Students who change degree programs and select this major must adopt the current curriculum.
- Students should select an advisor prior to selecting this major, and at least annually thereafter.
- Students must earn at least a "C" (1.75) in each required course and maintain an overall GPA of at least 2.0.
- Prior to participation in Sports and Fitness Practicum I and Practicum II listed below, students must have achieved admission into one of the areas of specialization listed and described below.
- Students must meet with their advisor prior to enrollment in Sports and Fitness Practicum I and Practicum II to complete departmental approval process of the organization with which they will be working.

<table>
<thead>
<tr>
<th>1.UCF General Education Program</th>
<th>37 Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>ENC 1101 Composition I 3 hrs</td>
</tr>
<tr>
<td>ENC 1102 Composition II 3 hrs</td>
<td></td>
</tr>
<tr>
<td>B. Cultural-Historical Foundations</td>
<td>SPC 1600 Fundamentals of Oral Comm 3 hrs</td>
</tr>
<tr>
<td>Preferred AMH 2010 U.S. History 1492-1877 3 hrs</td>
<td></td>
</tr>
<tr>
<td>Preferred AMH 2020 U.S. History 1877-Present 3 hrs</td>
<td></td>
</tr>
<tr>
<td>Select one:</td>
<td></td>
</tr>
<tr>
<td>STA 1060C Basic Stat using Microsoft Excel</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 2014C Principles of Statistics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select one:</td>
<td></td>
</tr>
<tr>
<td>STA 1060C Basic Stat using Microsoft Excel</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 2014C Principles of Statistics</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**2. Sports and Fitness Lower Division**

| 7 hrs |
| PET 2622C Human Injuries 3 hrs |
| ZOO 3736C Exercise Physiology Anatomy 4 hrs |

**3. Lower Division Electives**

| 16 Hrs |
| Selected Electives (Prefixes: PEL, PEM, PEO, PET) 7 hrs |
| EME 2040 Technology for Educators or | 3 hrs |
| CGS 1060C Introduction to Computer Science | 3 hrs |
| Humanities Elective 3 hrs |
| *See advisor for Course Selection* |

| 27 Hrs |
| 4. Sports & Fitness Core |
| PET 3137 Concepts and Practices in Sports and Fitness 3 hrs |
| PET 3708 Public Relations in Sports and Fitness 3 hrs |
| PET 3462 Fiscal and Facilities Issues in Sports and Fitness 3 hrs |
| PET 3493 Sports and Ethics 3 hrs |
| PET 4215 Motivational Aspects of Athletic Performance 3 hrs |
| PET 4312 Biomechanics 3 hrs |
| PET 4401 Administration & Evaluation 3 hrs |
| PET 4491 Legal Issues in Sports and Fitness 3 hrs |
| PET 4550 Fitness Assessment and Exercise 3 hrs |

| 12 Hrs |
| 5. Specialization |
| Select One Option: |

**Option A: Coaching**

| 3 hrs |
| PET 3765 Coaching Theory |
| PET 4763 Coaching Methods and Principles | 3 hrs |
| PET 4625 Human Injuries - Mechanisms and Prevention | 3 hrs |
| Coaching Specific (choose one) 3 hrs |
| PEO 2624 Coaching Basketball |
| PEO 3324 Coaching Volleyball |
| PEO 3644 Coaching Football |
| Students selecting the Coaching Specialization must register and complete the State of Florida Coaching Certification Process or an equivalent professional certifying body. |

**Option B: Fitness**

| 3 hrs |
| PET 3361 Nutrition for Sports and Fitness |
| PET 3775 Fitness and Conditioning Concepts | 3 hrs |
| PET 4083C Practical Fitness Training | 3 hrs |
| PET 4625 Human Injuries - Mechanisms and Prevention | 3 hrs |
| Students selecting the Fitness Specialization must register for a Professional Fitness Certification through the American College of Sports Medicine (ACSM), the National Strength and Conditioning Association (NSCA), or an equivalent Professional Certifying body. |

| 6 Hrs |
| 7. Sports & Fitness Practica | 18 Hrs |
| PET 4925 Sports and Fitness Practicum I | 6 Hrs |
| PET 4926 Sports and Fitness Practicum II | 12 Hrs |
| During the final year of the program, students will complete Practicum requirements with a Sports or Fitness organization. These experiences will provide the student with actual professional experiences and practical hands-on knowledge of the career in which they have chosen to work. The design of Practicum I will be that of an observational and analytical role. During Practicum II, the student will be given responsibilities and assignments through the organization in which they have been placed and will carry an active role in the operation of the organization. |
| In both Practicum I and Practicum II, the student will be working directly with a Placement Coordinator in the organization and their University Supervisor. The University Supervisor will maintain periodic contact with the Placement Coordinator to check performance status. The Sports and Fitness program has developed tremendous opportunities through associations with partners in the Clermont and greater Orlando areas. Students will not be limited to these organi- |
zations. Students will have the option to arrange their own practicum experience if they so choose. In either case, before enrolling in either Practicum I or Practicum II, students must meet with their advisor to provide organization contact information and gain Practicum Placement Approval.

The students will be instructed that they will be representing not only themselves while on site during their Practicum experiences, but also the University of Central Florida and the Sports and Fitness Program. Professionalism in manner, dress and job performance will be expected at all times. There should be any question of the performance of the students during their practicum experience, they will be required to meet with their University Supervisor and their Faculty Advisor for a performance evaluation before returning to the Practicum site. The performance concerns will be addressed and a plan of action will be developed. If the problems persist and the situation warrants, the students may be removed from their Practicum experience.

8. Foreign Language
(0-8 hrs)
State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

9. Exit Requirements
- A minimum overall GPA of 2.5.
- 48 semester hours of upper division credit completed.
- 30 semester hours in regular courses completed at UCF.
- Specialization Certification.
- Participation in event operations of a minimum of one major sports and fitness event
- Successful completion of 18 hours of Practicum Experiences.

10. Total Program Semester Hours Required (120 hrs)

11. Recommended Four-Year Sequence of Courses

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Fall (12 hrs)</th>
<th>Spring (16 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>*CGS 1060C or</td>
<td>3 hrs</td>
<td>AMH 2010</td>
</tr>
<tr>
<td>EME 2040</td>
<td>4 hrs</td>
<td>BSC 2010C</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>3 hrs</td>
<td>ENC 1102</td>
</tr>
<tr>
<td>*MGF 1106</td>
<td>3 hrs</td>
<td>MAC 1105</td>
</tr>
<tr>
<td>PSC 1121</td>
<td>3 hrs</td>
<td>SPC 1600</td>
</tr>
<tr>
<td>PSY 2012</td>
<td>3 hrs</td>
<td>PET 2622C</td>
</tr>
<tr>
<td>STA 1060C or STA 2014C</td>
<td>3 hrs</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ZOO 3736C</td>
<td>4 hrs</td>
<td>POS 2041</td>
</tr>
<tr>
<td>Specialization electives</td>
<td>3 hrs</td>
<td>Specialization electives</td>
</tr>
<tr>
<td>(PEL/PEM/PEO/PET XXXX)</td>
<td>4 hrs</td>
<td>(PEL/PEM/PEO/PET XXXX)</td>
</tr>
<tr>
<td>Summer (6 hrs)</td>
<td>PHT 2010</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Junior Year (15 hrs)</td>
<td>Fall</td>
<td>Spring (15 hrs)</td>
</tr>
<tr>
<td>PET 3137</td>
<td>3 hrs</td>
<td>PET 3408</td>
</tr>
<tr>
<td>PET 3493</td>
<td>3 hrs</td>
<td>PET 4215</td>
</tr>
<tr>
<td>PET 4401</td>
<td>3 hrs</td>
<td>PET 4312</td>
</tr>
<tr>
<td>PET 4550</td>
<td>3 hrs</td>
<td>PET 4491</td>
</tr>
<tr>
<td>Specialization</td>
<td></td>
<td>Specialization</td>
</tr>
<tr>
<td>Option A (Coaching):</td>
<td>3 hrs</td>
<td>Option A (Coaching):</td>
</tr>
<tr>
<td>Upper division restricted elective (see advisor)</td>
<td>or</td>
<td>PET 4763</td>
</tr>
<tr>
<td>or</td>
<td>Specialization</td>
<td>Option B (Fitness):</td>
</tr>
<tr>
<td>Option B (Fitness):</td>
<td>3 hrs</td>
<td>Specialization</td>
</tr>
<tr>
<td>Summer (3 hrs)</td>
<td>Specialization</td>
<td></td>
</tr>
<tr>
<td>Option A (Coaching):</td>
<td>PEO 2624 or PEO 3324 or PEO 3644</td>
<td>3 hrs</td>
</tr>
<tr>
<td>or</td>
<td>Specialization</td>
<td>Option B (Fitness):</td>
</tr>
<tr>
<td>Senior Year</td>
<td>Fall (12 or 15 hrs)</td>
<td>Spring (12 or 15 hrs)</td>
</tr>
<tr>
<td>PET 3462</td>
<td>3 hrs</td>
<td>PET 4026</td>
</tr>
<tr>
<td>PET 4635</td>
<td>3 hrs</td>
<td>Specialization Option B (Fitness):</td>
</tr>
<tr>
<td>PET 4925</td>
<td>6 hrs</td>
<td>PET 4083C</td>
</tr>
<tr>
<td>Specialization Option A (Coaching):</td>
<td>3 hrs</td>
<td></td>
</tr>
</tbody>
</table>
| *Please see your faculty Advisor for course selection. A.S. students should consult with their community college advisor for selection of electives.

STATISTICS (B.S.)
College of Sciences
Department of Statistics and Actuarial Science
CC II 212, 407-823-2289
http://www.cas.ucf.edu/statistics
E-mail: statistics@ucf.edu
Nizam Uddin, 407-823-2692

Admission Requirements
- none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- All statistics courses except STA 2023, STA 3032, and those protected by Florida Common Course Numbering must be taken from, or approved by the Statistics Department at UCF.
- Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Statistics Department.
- Students must earn at least a “C” (2.0) in each STA course.
- A minimum 2.0 average is required in all computer science and mathematics courses that count toward a statistics major.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 +3 hrs)

Note: Certain courses must be selected in the GEP for this major bringing the total hours to more than 36)

A. Communication Foundations
- 9 hrs
B. Cultural and Historical Foundations
- 9 hrs
C. Mathematical Foundations
- 7 hrs
D. Social Foundations
- 6 hrs
E. Science Foundations
- 4 hrs

2. Common Program Prerequisites (7 hrs)

COP 3502C* Computer Science I
- 3 hrs
MAC 2311 Calculus with Analy Geo I
- 4 hrs
MAC 2312 Calculus with Analy Geo II
- 4 hrs
BSC 2010C or CHM 2045C
- 4 hrs

3. Core requirements (51 hrs)

STA 2023 Statistical Methods I
- 3 hrs
STA 4102 Computer Process of Stat Data
- 3 hrs
STA 4163 Statistical Methods II
- 3 hrs
STA 4154 Statistical Methods III
- 3 hrs
STA 4321 Statistical Theory I
- 3 hrs
STA 4322 Statistical Theory II
- 3 hrs
COT 4500 Numerical Calculus
- 3 hrs
MAC 2313 Calculus with Analy Geo III
- 4 hrs
ENC 3241 Writing for the Tech Professional
- 3 hrs
CHM 2045C or PHY 2053C
- 4 hrs
COP 3223 3223* Intro to Programming in C*
- 3 hrs

*may substitute an approved programming language course

a. Select one course
- 4 hrs
- MAS 3105 Linear Algebra
- MAS 3115 Linear and Matrix Algebra

b. Select one course
- 3 hrs
- COT 3100C Introduction to Discrete Structure
- MWF 3302 Logic and Proof in Mathematics

c. Select three from among the following:
- 9 hrs
SCIENCE TRACK

A 2.0 UCF GPA

Related Minors: Statistics, Mathematics

COP 3502C: any COP programming language course. However, COP 3502C is a prerequisite for Computer Sciences courses and may need to be taken. BSC 2010C: any laboratory BSC, CHM, or PHY course. However this is a prerequisite for BSC 2011C and will need to be taken.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same

Graduation: none

Electives (variable) Select primarily from upper level courses, with departmental advisement. Courses with an asterisk (*) may be replaced by alternates in the same department.

Elective* Check restrictions

4. Restricted Electives (6 hrs) Select from upper division or graduate statistics (e.g., STA 5205, STA 5825), mathematics, or computer science courses.

5. Departmental Exit Requirements

6. Foreign Language Requirements (0-8 hrs) Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation:

7. Electives (variable) Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

48 semester hours of upper division credit completed (Note: Statistics majors may count MAC 2313 as upper division credit.)

A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.

Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Mathematics, Mathematics Education, Actuarial Science Track

Transfer Notes:

At least 60 semester hours earned after CLEP awarded

Accepted Substitutes for common program prerequisites if taken prior to transferring to UCF:

B. Mathematical Foundations (6 hrs)

E-mail: jwhiteman@mail.ucf.edu

For students in adult Technical Education and Industry Training. This degree does not lead to teacher certification at the state level.

1. UCF General Education Program (36 hrs)

A. Communication Foundations (3 hrs)

B. Cultural-Historical Foundations (9 hrs)

C. Mathematical Foundations (6 hrs)

D. Natural Science Courses (9 hrs)

E. Social Science Courses (6 hrs)

F. University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via distributed learning. For more information, see http://distrib.ucf.edu/home.

Admission Requirements

Complete the University General Education requirements or its equivalent, (i.e., an AA degree from an approved Florida community college or state university)

Have a minimum 2.5 overall GPA

Meet the University CLAST or CLAST alternative criteria

Complete prerequisite courses

Degree Requirements

Students should consult with an advisor prior to registration.

2006-2007 Undergraduate Catalog

UNIVERSITY OF CENTRAL FLORIDA
Select one:
STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics
D. Social Foundations (6 hrs)
E. Science Foundations (6 hrs)

2. Common Program Prerequisites (9 hrs)
EDF 2005 Introduction to Education 3 hrs
EDG 2701 Teaching Diverse Populations 3 hrs
EME 2040 Technology for Educators 3 hrs

3. Program Core Requirements (27 hours)
EVT 3365 Gen Method/Test Eval 3 hrs
EVT 3062 Professional Role Voc Ed Teacher 3 hrs
EVT 3312 Course Const Health Occ Ed or 3 hrs
EVT 3371 Course Const Industrial Ed 3 hrs
EVT 3502 Special Needs Voc Ed Students 3 hrs
EVT 4056 Princ/Prac Voc Ed 3 hrs
EVT 4388 Adv Teaching/Techniques in Voc Ed 3 hrs
EVT 3367 Eval Vocation Training 3 hrs
EVT 4169 Curr Dev of Ind Training 3 hrs
ADE 4382 Teaching Adult Learners 3 hrs

4. Occupational Specialization Requirements (30 hrs)
Students must complete an area of specialization through one of the following routes:
- Occupation-specific courses
- Recognized occupational license/registration/certification
- Occupational examination
- Sufficient documentation demonstrating comparable occupational expertise equivalent to 30 semester hours of credit.
  (with advisor’s approval)

5. Upper Division Electives (6 hrs)
(with advisor’s approval)
6. Directed Field Experience (12 hrs)
The Occupational Specialization must be satisfied and all courses must be completed prior to registering, through your advisor, for the Directed Field Experience.

7. Foreign Language Requirements (0-8 hrs)
State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

6. Departmental Exit Requirements*
- Achieve a minimum 2.5 GPA in all courses within the major.

7. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

8. Total Program Semester Hours Required: 120 hours

9. Recommended Sequence of Program Courses:
Freshman Year
Fall (15 hrs)
ENC 1101 3 hrs
MGF 1106 3 hrs
SPC 1016 3 hrs
Cultural-Historical Foundations Course 3 hrs
Social Foundations Course 3 hrs
Spring (15 hrs)
ENC 1102 3 hrs
STA 1060C or STA 2014C 3 hrs
Cultural-Historical Foundations Course 3 hrs
Cultural-Historical Foundations Course 3 hrs
Social Foundations Course 3 hrs
Sophomore Year
Fall (12 or 16 hrs)
EDF 2005 3 hrs
EME 2040 3 hrs
Science Foundations Course 3 hrs
Technical Specialization Course 3 hrs
Foreign Language Course (if needed) 4 hrs
Spring (12 or 16 hrs)
EDG 2701 3 hrs
Science Foundations Course 3 hrs
Technical Specialization Course 3 hrs
Technical Specialization Course 3 hrs
Foreign Language Course (if needed) 4 hrs
Summer (6 hrs)
EVT 3062 3 hrs
EVT 3312 or EVT 3371 3 hrs
Junior Year
Fall (15 hrs)
EVT 3365 3 hrs
Technical Specialization Course 3 hrs
Technical Specialization Course 3 hrs
Technical Specialization Course 3 hrs
Technical Specialization Course 3 hrs
Spring (15 hrs)
EVT 3062 3 hrs
EVT 3367 3 hrs
Technical Specialization Course 3 hrs
Technical Specialization Course 3 hrs
Technical Specialization Course 3 hrs
Summer (6 hrs)
EVT 4065 3 hrs
EVT 4109 3 hrs
Senior Year
Fall (12 hrs)
ADE 4382 3 hrs
EVT 4368 3 hrs
Upper Division Elective 3 hrs
Upper Division Elective 3 hrs
Spring (12 hrs)
EVT 4941 12 hrs

*It is highly recommended that students seeking State certification pass the GKT. See advisor for further details.

THEATRE (B.F.A.)
College of Arts and Humanities
Department of Theatre, UTC 180; 407-823-2862
http://www.theatre.ucf.edu
Acting: Be Boyd, bbboyd@mail.ucf.edu
Design & Technology and Stage Management: Bert Scott, hscott@mail.ucf.edu
407-823-0872
Design & Technology and Stage Management: Bert
http://www.theatre.ucf.edu

The Bachelor of Fine Arts Degree is offered for students who, upon graduation, plan to pursue a specialized career in professional theatre. It provides the student with a very structured and intensive career preparation in either Acting, Stage Management, or Design and Technology. This BFA is also an excellent degree for students who are interested in pursuing graduate studies in theatre. Work within the BFA program requires energy and dedication; therefore, other part-time study or outside employment is generally impossible. BFA standards are high, both for admission and for continuation in the program. Casting, crew, and design assignments are regulated to serve the artistic growth of students coordinating production experience with classroom exploration.

Admission Requirements
- Entrance into most theatre classes is restricted to majors.
- Exceptions must be approved by the Department.
- The departmental faculty evaluates students desiring to become BFA majors via an interview, audition, or portfolio review. For complete information, contact the Department of Theatre or visit the audition site online at http://www.theatre.ucf.edu.
- An Acting candidate must be interviewed and perform two mono-
logues of contrasting styles limited to a combined time of 3 minutes. See www.theatre.ucf.edu for details and to schedule an appointment.

- Design and Technology and Stage Management tracks require an interview and portfolio review. The portfolio should contain no more than fifteen examples of the student’s best work representing a variety of mediums including theatre work, drawing, painting, or other related projects. Three-dimensional pieces should be submitted in photo format. See www.theatre.ucf.edu for details and to schedule an appointment.

- All students must submit a resume, black and white head shot, three letters of recommendation, and transcripts of previous college work at the time of audition or interview.*

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.

- Students must adopt the most current internship manual upon registration for their internship. Internships are subject to departmental approval and may not be fulfilled through participating on a UCF Conservatory Theatre Production.

- Students must maintain a minimum “B” (3.0) overall Theatre GPA to continue in the major.

- Theatre grades of less than “C” (2.0) will not be counted.

- Continuation in the BFA program requires a positive BFA review.

- Co-op credit cannot be used in this major.

- Students must consult with a departmental advisor before registering each semester.

- Departmental Residency Requirement consists of 60 semester hours of regularly scheduled courses taken from the UCF Theatre Department.

Prior to graduation, all BFA acting majors (including transfers) must participate in at least 4 productions in addition to their Technical Theatre Production Lab. At least one participation credit must be an acting role, one must be a run crew, and one must be in a shop or front of house, and the final one can be chosen by the student.

Prior to graduation, all BFA Design and Technology and Stage Management majors (including transfers) must participate in at least 5 productions in addition to their Stagecraft I and II Labs. At least two participation credits must be as a department head, stage manager, assistant stage manager, designer, or other high-level production role. The other three credits can be a combination of shop assignments, run crew, front of house, or department head. Stage Management majors can use performance assignments for participation assignments.

- All BFA acting majors are required to audition for all Fall and Spring productions and must accept the roles assigned.

- Due to the conservatory nature, the BFA demands a closely integrated four-year curriculum. Although the BFA program is not designed for transfer students, transfer students may audition and be admitted, but they should consult with the Theatre Department’s Undergraduate Coordinator to evaluate their transfer credits and to determine the length of their program of study. We encourage any student wishing to transfer to complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System-

- Design and Technology Students are required to take ARH 2051 as part of their GEP and are strongly encouraged to take ARH 2050 as an elective as early in their academic career as possible.

- Design and Technology Students are required to take at least two design or technical direction elective courses following the completion of Scenography.

- Courses designated 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

- Courses designated 1 (General Education Program) are taken throughout all four years.

1. UCF General Education Program (36 hrs)

   A. Communication Foundations
      - Select one course from 1.B.1 list
      - Select THE 2020 Survey of Theatre for Majors
      9 hrs

   B. Cultural and Historical Foundations
      3 hrs

   2. Common Program Prerequisites (9 hrs)

      THE 2020* Survey of Theatre for majors
      GEP
      3 hrs

      THE 2304 Theatre Participation - Performance I
      1 hr

      THE 2309L Theatre Participation – Production I
      1 hr

      TPP 2190* Theatre Participation - Performance I
      1 hr

      TPP 2210 Stagecraft I
      3 hrs

      TPP 2290L Theatre Participation – Management I
      3 hrs

      TPP 2390L Theatre Participation – Performance I
      3 hrs

      TPP 4000 Theatre Participation LAB
      1 hr

      TPP 3310C Directing I
      3 hrs

3. Core Requirements (18 hrs)

   TPP 2110C Acting I - Introduction
   3 hrs

   THE 3XXX Theatre History and Dramatic Literature I
   3 hrs

   THE 3XXX Theatre History and Dramatic Literature II
   3 hrs

   THE 4XXX Theatre History and Dramatic Literature III
   3 hrs

   THE 2304 Script Analysis CPP

   THE 2090L Stagecraft I CPP

   TPP 2290L Theatre Participation – Production I
   1 hr

   TPP 2190L Theatre Participation - Performance I
   1 hr

   TPP 2000C Theatre Design Basics
   3 hrs

   TPP 2000 Theatre Participation - Production I
   1 hr

   TPP 2010C Theatre Participation - Management I
   1 hr

   TPP 2210 Stagecraft I
   1 hr

   TPP 2201 Technical Theatre Production
   3 hrs

   TPP 2211 Stagecraft II
   1 hr

   TPP 2211L Stagecraft II LAB
   1 hr

   TPP 4393 Theatre Participation – Production II
   1 hr

   THE 4093L Theatre Participation – Management II
   1 hr

   THE 4000 Theatre Management
   3 hrs

   TPP 2170C Acting II – The Actor Prepares
   3 hrs

   TPP 2170 Acting II – The Actor Prepares
   3 hrs

   TPA 4140C Acting I - Creating the Role
   3 hrs

   TPA 4142C Acting V - Verse
   3 hrs

   TPA 4265C Acting VI - TV/Film
   2 hrs

   TPA 4531C Period Movement
   2 hrs

   TPP 4400 Theatre Management
   3 hrs

   TPP 2248C Makeup Techniques
   2 hrs

   TPP 3223 Theatre Careers for Performance
   2 hrs

   DAA 2570C Jazz Dance I
   2 hrs

   Restricted electives (see list of courses)
   15 hrs

4A. Specialization: select one area (66 hrs)

   Acting Specialization

   TPA 2201 Technical Theatre Production
   3 hrs

   TPA 2201L Technical Theatre Production LAB
   3 hrs

   TPA 2170C Acting II – The Actor Prepares
   1 hr

   TPA 2190L Theatre Participation – Performance I
   1 hr

   DAA 2200C Ballet I
   2 hrs

   TPA 2710C Voice Production I
   2 hrs

   TPA 3170C Acting III – Building the Character
   2 hrs

   TPA 3510C Movement for Actors I
   2 hrs

   TPA 35XX Movement for Actors II
   2 hrs

   TPA 3512C Stage Combat
   2 hrs

   TPA 3257 Musical Theatre Voice I
   2 hrs

   TPA 3258 Musical Theatre Voice II
   2 hrs

   TPA 3711C Voice Production II
   2 hrs

   TPA 3712C Voice Production III
   2 hrs

   TPA 3730C Voice Production IV
   2 hrs

   TPA 4140C Acting I - Creating the Role
   3 hrs

   TPA 4142C Acting V - Verse
   3 hrs

   TPA 3601 Stage Management
   3 hrs

   TPA 3602 Advanced Stage Management
   3 hrs

   TPA 3221 Lighting Design for Theatre I
   3 hrs

   TPA 3221L Lighting Design for Theatre II
   3 hrs

   TPA 3260 Sound Design for Theatre I
   3 hrs

   TPA 3197 Summer Theatre Tech
   3 hrs

   TPA 3195 Theatre Studio Tech
   3 hrs

   TPA 3043C Costumes, Architecture and Décor History I
   3 hrs

   TPA 3044C Costumes, Architecture and Décor History II
   3 hrs

   Stage Management Specialization

   TPA 2210 Stagecraft I
   3 hrs

   TPA 2211 Stagecraft II
   3 hrs

   TPA 2211L Stagecraft II LAB
   3 hrs

   TPA 4393 Theatre Participation – Production II
   1 hr

   THE 4093L Theatre Participation – Management II
   1 hr

   THE 4000 Theatre Management
   3 hrs

   TPP 2170C Acting II – The Actor Prepares
   3 hrs

   TPP 2170 Acting II – The Actor Prepares
   3 hrs

   TPA 2000C Theatre Design Basics
   3 hrs

   TPA 2000X Scenography
   3 hrs

   TPA 20XX Stage Electronics
   3 hrs

   TPA 20XX Stage Management Basics
   3 hrs

   TPA 3601 Stage Management
   3 hrs

   TPA 4062 Advanced Stage Management
   3 hrs

   TPA 3221 Lighting Design for Theatre I
   3 hrs

   TPA 3221L Lighting Design for Theatre II
   3 hrs

   TPA 3260 Sound Design for Theatre I
   3 hrs

   TPA 3197 Summer Theatre Tech
   3 hrs

   TPA 3195 Theatre Studio Tech
   3 hrs

   TPA 3043C Costumes, Architecture and Décor History I
   3 hrs

   TPA 3044C Costumes, Architecture and Décor History II
   3 hrs

   Design and Technology Students- Select ARH 2051 (History of Western Art II)
   3 hrs

   C. Mathematical Foundations
      Select MGF 1106 Finite Mathematics
      (may substitute a higher level math)
      3 hrs

      Select STA 1060C Statistics Using Excel
      3 hrs

   D. Social Foundations
   6 hrs

   E. Science Foundations
   6 hrs

2006-2007 Undergraduate Catalog
Take a Departmental Exit Examination and write a critique of a
Maintain a 'B' Theatre GPA (3.0) or better
Earn a grade of "C" (2.0) or better in each Theatre course

5. Departmental Exit Requirements
- Earn a grade of "C" (2.0) or better in each Theatre course
- Maintain a 'B' Theatre GPA (3.0) or better
- Take a Departmental Exit Examination and write a critique of a UCF affiliated theatre production
- Complete 93 theatre credits in addition to the GEP for a total of 129. Courses that count in the GEP cannot also count towards your total theatre credits.
- Minimum of 60 theatre credits must be completed in residency at UCF
- Computer Competency met by STA 1060C or computer science course

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

7. Electives (variable)

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A minimum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 129 hrs

Related Programs: Art, Film, Music, Theatre Studies BA
Related Minors: Art, Music, Film, Theatre, Dance
Transfer Notes:
- Courses taken at community colleges may substitute for select Upper Division courses with permission of the department, although they will not count as Upper Division credits. University minimum Upper Division credit requirement must still be met.
- Transfer students will be required to meet the departmental theatre participation requirement through participation on UCF productions.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit.
- The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- THE 2090L: may use THE 2925
- TPP 2190: may use TPP 1190 or TPP 2110
- TPP 2210: may use TPP 2200 or TPP 2201
- TPP 2211: may use TPP 2200 or TPP 2210
- TPP 2214: may use TPP 2200 or TPP 2214
- TPP 2217: may use TPP 2200 or TPP 2217

THEATRE STUDIES (B.A.)
College of Arts and Humanities
Department of Theatre, UTC 180; 407-823-2862 http://www.theatre.ucf.edu
E-mail: jwshafer@mail.ucf.edu tollefs@mail.ucf.edu
John Shafer/Kristina Tollefon, 407-823-08710233
The Bachelor of Arts Degree is designed to offer a thorough foundation in theatre while providing greater flexibility and opportunity for interdisciplinary study. The BA course of study emphasizes a broad-based theatre education and provides freedom to pursue a complementary minor. Upon graduation, UCF students can choose to pursue further education or enter the job market with a skill set unique to their goals.

Admission Requirements
- The departmental faculty evaluates, via an interview, students who desire to become BA majors. For complete information, contact the Department of Theatre or visit the audition site online at www.theatre.ucf.edu
- All students must submit a three letters of recommendation, a resume, and transcripts of previous college work at the time of interview

Degree Requirements

UCF Degree Programs

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>TPA 4904</td>
<td>Theatre Internship</td>
<td>6 hrs</td>
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<tr>
<td>TPA 3401</td>
<td>Theatre Careers for Tech/Management</td>
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</tr>
<tr>
<td>TPA 3250</td>
<td>CADD for Theatre</td>
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<td>Restricted electives (see list of courses)</td>
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Design and Technology Specialization

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<td>ARH 2051</td>
<td>Art History II</td>
<td>GEP</td>
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<td>TPA 2210</td>
<td>Stagecraft I</td>
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<td>TPA 2210L</td>
<td>Stagecraft I LAB</td>
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<td>TPA 2211</td>
<td>Stagecraft II</td>
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<tr>
<td>TPA 2211L</td>
<td>Stagecraft II LAB</td>
<td>1 hrs</td>
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<tr>
<td>TPA 2XXX</td>
<td>Stage Electronics</td>
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<tr>
<td>TPA 4393</td>
<td>Theatre Participation – Production II</td>
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<tr>
<td>TPA 2000C</td>
<td>Theatre Design Basics</td>
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<td>TPA 2071C</td>
<td>Theatre Rendering</td>
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<td>TPA 2XXX</td>
<td>Scenography</td>
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<tr>
<td>TPA 3043C</td>
<td>Costumes, Architecture and Décor History I</td>
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<tr>
<td>TPA 3044C</td>
<td>Costumes, Architecture and Décor History II</td>
<td>3 hrs</td>
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<tr>
<td>TPA 3077</td>
<td>Scene Painting</td>
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<tr>
<td>TPA 3XXX</td>
<td>Topics in Technical Theatre</td>
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<tr>
<td>TPA 3197</td>
<td>Summer Theatre Tech</td>
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<td>TPA 3195</td>
<td>Theatre Studio Tech</td>
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<td>TPA 3220</td>
<td>Costume Construction</td>
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<td>TPA 3250</td>
<td>CADD for Theatre</td>
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<td>TPA 3251</td>
<td>Advanced CADD for Theatre</td>
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<td>TPA 4940</td>
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<td>Theatre Careers for Tech/Management</td>
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<td>Restricted electives (see list of courses)</td>
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4B. Restricted Electives (except where required by a specialization - see specializations for credit hours)

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<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>THE 2090L</td>
<td>Theatre Participation – Management I</td>
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<td>THE 2320</td>
<td>Commonly within Cultural Diversity</td>
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<tr>
<td>THE 4093L</td>
<td>Theatre Participation – Management II</td>
<td>1 hr</td>
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<tr>
<td>THE 3240</td>
<td>Musical Theatre Survey</td>
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<td>THE 3507</td>
<td>Contemporary Theatre</td>
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<tr>
<td>TPA 2290L</td>
<td>Theatre Participation - Production I</td>
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<td>TPA 3077</td>
<td>Scene Painting</td>
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<tr>
<td>TPA 3XXX</td>
<td>Topics in Technical Theatre</td>
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<td>TPA 3060C</td>
<td>Scene Design for Theatre I</td>
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<td>TPA 3040</td>
<td>Costume Design for Theatre I</td>
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<td>TPA 3221</td>
<td>Lighting Design for Theatre I</td>
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<tr>
<td>TPA 3260</td>
<td>Sound Design for Theatre I</td>
<td>3 hrs</td>
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<tr>
<td>TPA 4XXX</td>
<td>Scene Design for Theatre I</td>
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<tr>
<td>TPA 4041C</td>
<td>Costume Design for Theatre I</td>
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<td>TPA 404XX</td>
<td>Lighting Design for Theatre II</td>
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<tr>
<td>TPA 4XXX</td>
<td>Sound Design for Theatre II</td>
<td>3 hrs</td>
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<tr>
<td>TPA 3XXX</td>
<td>Advanced Topics in Technical Theatre</td>
<td>3 hrs</td>
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<tr>
<td>TPA 3197</td>
<td>Summer Theatre Studio/Tech/Design</td>
<td>3 hrs</td>
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<tr>
<td>TPA 3195</td>
<td>Theatre Studio Tech/Design</td>
<td>3 hrs</td>
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<tr>
<td>TPA 2XXX</td>
<td>Stage Management Basics</td>
<td>3 hrs</td>
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<td>TPA 3601</td>
<td>Stage Management</td>
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<td>TPA 4400</td>
<td>Theatre Management</td>
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<tr>
<td>TPA 4393</td>
<td>Theatre Participation – Production II</td>
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<tr>
<td>TPP 2190</td>
<td>Theatre Participation – Performance I</td>
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<td>TPP 2197</td>
<td>Summer Theatre Perform.</td>
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<td>TPP 2352</td>
<td>Studio Performance</td>
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<td>TPA 3043C</td>
<td>Costumes, Architecture and Décor History I</td>
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<tr>
<td>TPA 3044C</td>
<td>Costumes, Architecture and Décor History II</td>
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<td>TPF 4143C</td>
<td>Acting Styles</td>
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<td>ARH 2050</td>
<td>History of Western Art I</td>
<td>GEP</td>
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<td>ARH 2051</td>
<td>History of Western Art II</td>
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<td>TPA 2248C</td>
<td>Makeup Technique</td>
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<td>TPA 2XXX</td>
<td>Introduction to Theatrical Design</td>
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<td>TPA 3197</td>
<td>Advanced Directing</td>
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<td>TPA 4193</td>
<td>Theatre Participation – Performance II</td>
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<tr>
<td>THE 4912</td>
<td>Undergraduate Research</td>
<td>3-6 hrs</td>
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<td>DAA 4192</td>
<td>Undergraduate Research</td>
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<tr>
<td>Honors in the Major Directed Readings and Thesis*</td>
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<tr>
<td>THE 3905*</td>
<td>Independent Study</td>
<td>1-9 hrs</td>
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<tr>
<td>DAA 3905*</td>
<td>Independent Study</td>
<td>1-9 hrs</td>
</tr>
<tr>
<td>Other THE, TPF, DAA or DAN courses as approved by the department</td>
<td>requires instructor and departmental approval in advance</td>
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</tbody>
</table>

* requires instructor and departmental approval in advance
Students who change degree programs and select this major must adopt the most current catalog.

Students are required to complete a minor to matriculate.

Students who complete a double major fulfill the minor requirement automatically.

Students must maintain a minimum "C" (2.0) overall Theatre GPA to continue in the major.

Co-op credit cannot be used in this major.

Students must consult with a departmental advisor each semester before registering.

Departmental Residency Requirement consists of at least 30 semester hours of regularly scheduled courses taken from the UCF Theatre Department.

All BA Theatre Studies theatre students must participate, in some capacity, in one of the main-stage productions during a minimum of four three semesters in addition to the Technical Theatre Production Lab. One of the Participation credits must be as part of a run crew. The other two participation credits can be a combination of performance, shop assignments, run crews or front of house. Students failing to successfully participate will be placed on probation for one semester. Continued failure may result in being dropped from the major.

Courses designated in 1 (General Education Program) are usually completed in the first 90 hours.

Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

A. Communication Foundations

B. Cultural and Historical Foundations

Select one course from 1.B.1 list

Select THE 2020 Survey of Theatre for Majors

Select one course from 1.B.1 or 1.B.2 list

C. Mathematical Foundations

D. Social Foundations

E. Science Foundations

2. Common Program Prerequisites (9 hrs)

THE 2020* Survey of Theatre for majors

THE 2304 Script Analysis

THE 2090L* Theatre Participation – Management I

TPP 2290L* Theatre Participation – Production I

TPP 2120* Theatre Participation – Performance I

TPA 2290L* Technical Theatre Production

TPA 2201 Technical Theatre Production Lab

*See Transfer Notes for possible substitutes

3. Core requirements (21 hrs)

TPP 2101 Fundamentals of Acting I

THE 2304 Script Analysis

THE 3XXX Theatre History/ Dram. Lit. I

THE 3XXX Theatre History/ Dram. Lit. II

THE 3XXX Theatre History/ Dram. Lit. III

TPP 2XXX Stage Voice/Speech

TPP 3310C Directing I

THE 4XXX Capstone

4. Restricted Electives (16 hrs)

Select 16 hours from the following

THE 3230 Commonly within Cultural Diversity

THE 3082 Theatre Careers

TPP 4143 Acting Styles

TPP 3XXX Acting on Camera

TPA 3XXX Intro to Theatrical Design

TPP 4221* Auditioning

THE 3240 Musical Theatre Survey

THE 4093L* Theatre Participation Management II

TPP 4293L* Theatre Participation-Production II

THE 5307* Contemporary Theatre

TPP 2246C* Make-up/Technique

TPA 3043C Costumes, Architecture, and Décor, History I

TPA 3044C Costumes, Architecture, and Décor History II

TPP 3195 Theatre Studio/TechnDesign

TPA 3197 Summer Theatre Studio/TechnDesign

TPA 2XXX* Stage Management Basics

THE 4400 Theatre Management

TPP 3103 Intermediate Acting

TPP 3197 Summer Theatre/Performance

THE 3952 Studio Performance

TPP 431L* Advanced Directing

Any DAA or DAN courses with instructor and departmental approval 2-8 hrs

THE 3930* Independent Study 1-12 hrs

THE 4912* Undergraduate Research 3-6 hrs

Honors in the Major Directed Readings and Thesis* 3-6 hrs

Other THE, TPP, or TPP courses as approved by the department

* requires instructor and departmental approval in advance

5. Departmental Exit Requirements

Earn a grade of "C" (2.0) or better in each Theatre course

Take a Departmental Exit Examination and write a critique of a UCF affiliated theatre production

Computer Competency met by STA 1060C or Computer Science Course

Minimum of 30 theatre credits must be completed in residency at UCF

6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Required Minor (18 hours minimum)

Theatre Studies BA students must complete a minor of at least 18 hours. See discipline for Minor requirements, information, and changes. University upper division credit hour requirements must be met. Students are discouraged from taking excess hours and should consider total credit hours required when selecting a minor. Students are free to pursue any minor open to them, but are encouraged to participate in the department’s Associated Minor program which provides additional career/advising support targeted at specific career paths. Please see the departmental handbook for a more complete description of the program and a list of Associated Minors. Participation in an Associated Minor must be approved after interview with the Area Coordinator of BA Theatre Studies.

8. Electives (variable)

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

9. University Minimum Exit Requirements

A 2.0 UCF GPA

60 semester hours earned after CLEP awarded

48 semester hours of upper division credit completed

30 of the last 36 hours of course work must be completed in residency at UCF

A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Art, Film, Music, Theatre BFA

Related Minors: Art, Music, Film, Theatre, Dance

Transfer Notes:

Courses taken at community colleges may substitute for select Upper Division courses with permission of the department, although they will not count as Upper Division credits. University minimum Upper Division credit requirement must still be met.

Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

THE 2020: may use any introductory course. However, THE 2020 is a prerequisite for all Theatre courses and may still need to be taken.

THE 2304XXX (Script Analysis): may use THE 2300 or THE 3305

THE 2090L: may use THE 2925

TPA 2290L: may use TPA 1290

TPP 2190: may use TPP 1110 or THE 4093L or TPA 4293
A candidate must present an audition consisting of one monologue and two musical selections. The entire audition should be an acting role, one must be a run crew, and one must be in a shop or front of house position.

All BFA Musical Theatre majors are required to audition for all Fall and Spring productions and must accept the roles assigned. Due to its conservatory nature, the BFA demands a closely integrated four-year curriculum. Although the program is not designed for transfer students, transfer students may audition and may be admitted, but they should consult with the Department Undergraduate Coordinator to evaluate their transfer credits and to determine the length of their program of study.

Admission Requirements
- Entrance into most theatre classes is restricted to majors. Exceptions must be approved by the Department.
- The departmental faculty evaluates students desiring to become majors via an interview and audition. For complete information, contact the Department of Theatre or visit the audition site online at http://www.theatre.ucf.edu.
- A candidate must present an audition consisting of one monologue and two musical selections. The entire audition should last no more than three minutes. An accompanist will be provided. Recorded accompaniment is not accepted. Candidates must also participate in a dance audition. Visit www.theatre.ucf.edu for details.
- All students must submit a resume, black and white head shot, three letters of recommendation, and transcripts of previous college work at the time of interview.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must adopt the most current internship manual upon registration for their internship. Internships are subject to departmental approval and may not be fulfilled through participating on a UCF Conservatory Theatre Production.
- Students must maintain a minimum "B" (3.0) overall Theatre GPA to continue in the major.
- Theatre grades of less than "C" (2.0) will not be counted.
- Continuation in the BFA program requires a positive annual BFA Review.
- Co-op cannot be used in this major.
- Students must consult with a departmental advisor every semester before registration.
- Departmental Residency Requirement consists of 60 semester hours of regularly scheduled courses taken from the UCF Theatre Department.
- Prior to graduation, all BFA Musical Theatre majors (including transfers) must participate in at least 4 productions in addition to their Technical Theatre Production Lab. At least one participation credit must be an acting role, one must be a run crew, and one must be in a shop or front of house position.

Courses designated 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

Courses designated 1 (General Education Program) are taken throughout all four years.

1. UCF General Education Program (36 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>Select one course from 1.B.1 list</td>
</tr>
<tr>
<td></td>
<td>Select one course from 1.B.1 or 1.B.2 list</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>Prefer MGF 1106 (may substitute a higher level math)</td>
</tr>
<tr>
<td></td>
<td>Prefer STA 1060C</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 (9 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE 2020*</td>
<td>Survey of Theatre for majors</td>
</tr>
<tr>
<td>THE 2304*</td>
<td>Script Analysis</td>
</tr>
<tr>
<td>THE 2090L*</td>
<td>Theatre Participation – Management I</td>
</tr>
<tr>
<td>TPA 2200L*</td>
<td>Theatre Participation – Production I</td>
</tr>
<tr>
<td>TPA 2190*</td>
<td>Theatre Participation – Production II</td>
</tr>
<tr>
<td>TPA 2201*</td>
<td>Technical Theatre Production</td>
</tr>
<tr>
<td>TPA 2201</td>
<td>Technical Theatre Production Lab</td>
</tr>
<tr>
<td>*See Transfer Notes for possible substitutes</td>
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</tr>
</tbody>
</table>

3. Specialization: Lower Division (22 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE 2304*</td>
<td>Script Analysis</td>
</tr>
<tr>
<td>MUT 1004</td>
<td>Fundamentals of Music I</td>
</tr>
<tr>
<td>MUT 1111</td>
<td>Music Theory 1A</td>
</tr>
<tr>
<td>TPA 2110C</td>
<td>Acting I - Introduction</td>
</tr>
<tr>
<td>TPA 2170C</td>
<td>Acting II - The Actor Prepares</td>
</tr>
<tr>
<td>DAA 2200C</td>
<td>Ballet I</td>
</tr>
<tr>
<td>DAA 2201C</td>
<td>Ballet II</td>
</tr>
<tr>
<td>DAA 2570C</td>
<td>Jazz Dance I</td>
</tr>
<tr>
<td>DAA 2571C</td>
<td>Jazz Dance II</td>
</tr>
<tr>
<td>DAA 2520C</td>
<td>Tap Dance I</td>
</tr>
<tr>
<td>TPA 2248C</td>
<td>Make-up Techniques</td>
</tr>
</tbody>
</table>

4. Specialization: Upper Division (56 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPA 3172C</td>
<td>Acting III - Building the Character</td>
</tr>
<tr>
<td>TPA 4140C</td>
<td>Acting IV – Creating the Role</td>
</tr>
<tr>
<td>TPA 3250</td>
<td>Musical Theatre Acting Perf I</td>
</tr>
<tr>
<td>TPA 3252</td>
<td>Musical Theatre Acting Perf II</td>
</tr>
<tr>
<td>THE 4244</td>
<td>Musical Theatre History I</td>
</tr>
<tr>
<td>THE 4245</td>
<td>Musical Theatre History II</td>
</tr>
<tr>
<td>TPA 3223</td>
<td>Theatre Careers for Performance</td>
</tr>
<tr>
<td>TPA 3XXX</td>
<td>Theatre History and Dram. Lit. I</td>
</tr>
<tr>
<td>TPA 3XXX</td>
<td>Theatre History and Dram. Lit. II</td>
</tr>
<tr>
<td>TPA 3310C</td>
<td>Directing I</td>
</tr>
<tr>
<td>TPA 4193</td>
<td>Theatre Participation – Performance I</td>
</tr>
<tr>
<td>TPA 3257</td>
<td>Musical Theatre Voice I</td>
</tr>
<tr>
<td>TPA 3258</td>
<td>Musical Theatre Voice II</td>
</tr>
<tr>
<td>TPA 4259</td>
<td>Musical Theatre Voice III</td>
</tr>
<tr>
<td>TPA 4923</td>
<td>Musical Theatre Voice IV</td>
</tr>
<tr>
<td>TPA 4XXXC</td>
<td>Musical Theatre Voice V</td>
</tr>
<tr>
<td>TPA 4xxxC</td>
<td>Musical Theatre Voice VI</td>
</tr>
<tr>
<td>TPA 4XXX</td>
<td>Musical Theatre Voice VII</td>
</tr>
<tr>
<td>TPA 4XXX</td>
<td>Theatre Capstone</td>
</tr>
<tr>
<td>TPA 4540L</td>
<td>Theatre Internship</td>
</tr>
</tbody>
</table>

4A. Movement Electives (2 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>TPF 4531C</td>
<td>Period Movement</td>
</tr>
<tr>
<td>TFP 3512C</td>
<td>Stage Combat</td>
</tr>
<tr>
<td>*Any DAA or DAN courses not already required and with departmental approval</td>
<td></td>
</tr>
</tbody>
</table>

4B. Restricted Electives (4 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>TPF 3730C</td>
<td>Voice Production IV – Study of Stage Dialects</td>
</tr>
<tr>
<td>TPF 4142C</td>
<td>Acting V - Verse</td>
</tr>
<tr>
<td>TPF 4265C</td>
<td>Acting VI – Acting for TV/Film</td>
</tr>
<tr>
<td>THE 3320</td>
<td>Commonality within Cultural Diversity</td>
</tr>
<tr>
<td>THE 5307*</td>
<td>Contemporary Theatre</td>
</tr>
</tbody>
</table>

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UCF Degree Programs

5. Departmental Exit Requirements
- Earn a grade of "C" (2.0) or better in each Theatre course
- Maintain a "B" Theatre GPA (3.0) or better
- Take a Departmental Exit Examination and write a critique of a UCF affiliated theatre production
- Minimum of 60 theatre credits must be completed in residency at UCF
- Complete 93 theatre credits in addition to the GEP for a total of 129. Courses that count in the GEP cannot also count towards your total theatre credits.
- Computer Competency met by STA 1060C or computer science course

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

7. Electives (variable)

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEM, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 129 hours

Related Programs: Film, Music, Theatre Studies BA
Related Minors: Music, Film, Theatre, Dance

Transfer Notes:
- Courses taken at community colleges may substitute for select Upper Division courses with permission of the department, although they will not count as Upper Division credits. University minimum Upper Division credit requirement must still be met.
- Transfer students will be required to meet the departmental theatre participation requirement through participation on UCF productions.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- THE 2020: may use any introductory course. However, THE 2020 is a prerequisite for all Theatre courses and will still need to be taken.
- THE 2304: may use THE 2300
- TPA 2290L: may use TPA 1290
- TPP 2190: may use TPP 1190
- TPA 2201: may use TPA 2200 or TPA 2210
MINORS AND CERTIFICATES

Minors are authorized only for certification with baccalaureate degrees. Minors must be certified at the same time as the student's baccalaureate degree. Unless a second baccalaureate degree is earned, certification will not be made at a later time even if additional courses have been completed.

A student may declare a minor up to but no later than the submission of the "Intent to Graduate Form." Students are strongly urged to declare a minor as early as possible. Contact the student support office of the college offering the minor.

Minors

Accounting
Aerospace Studies
African - American Studies
Aging Studies
American Humanics
American Sign Language
American Studies
Anthropology
Anthropology in Multicultural Studies
Art History
Art - Studio
Asian Studies
Astronomy
Business
Chemistry
Coaching
Cognitive Sciences
Communication Sciences & Disorders
Community Arts - PAVE
Computer Science
Criminal Justice
Dance
Deaf Studies
Digital Media
Early Childhood Education
e-Business
Economics
Emergency Management & Homeland Security
English - Creative Writing
English - Linguistics
English - Literature
English - Technical Writing and Editing
English - Writing
Environmental Studies
European Studies
Exceptional Education
Film - Cinema Studies
Fitness Training
Finance
French
German
Health Information Management
Health Sciences
Health Services Administration
History
Hospitality Management
Humanities
Information Technology
International and Global Studies
International Business
Interpersonal Communication
Intelligent Robot Systems - Interdisciplinary
Italian
Judaic Studies
Latin American Area Studies
Legal Studies
Magazine Journalism
Management Information Systems
Mass Communication
Mathematics
Middle Eastern Studies
Military Science
Molecular Biology and Microbiology
Music
North American Indian Studies
Organizational Communication
Philosophy
Philosophy, Religion and Popular Culture
Physics
Political Science
Political Science/Prelaw
Psychology
Public Administration
Real Estate
Religious Studies
Secure Computing and Networks
Social Sciences - Interdisciplinary
Sociology
Space Studies
Spanish
Sport Business Management
Statistics
Technical Education and Industry Training
Technology and Society
Theatre - General
Urban and Regional Planning
Women's Studies
World Comparative Studies

Certificates

Addictions Certificate
Aging Studies Certificate
American Sign Language Certificate
Behavioral Forensics Certificate
Children's Services Certificate
Crime Analysis and Crime Mapping Certificate
Crime Scene Investigation Certificate
Criminal Profiling Certificate
Cultural Tourism Certificate
Digital Media Certificate
Entertainment Marketing Certificate
Finance: Banking Certificate
Finance: Corporate Finance Certificate
Finance: Investments Certificate
Jazz Studies Certificate
Judaic Studies Certificate
Language Development and Disorders Certificate
Marketing: Selling and Sales Management Certificate
Marketing: Retailing Management Certificate
Marketing: e-Marketing Certificate
Marketing: Sport Marketing Management Certificate
Marketing: Healthcare Marketing Certificate
Marketing: Services Marketing Certificate
Marketing: Entertainment Marketing Certificate
Nonprofit Management Certificate
Real Estate: Real Estate Brokerage Certificate
Real Estate: Real Estate Appraisal Certificate
Real Estate: Mortgage Brokerage Certificate
Security Management Certificate
Service-Learning Certificate
Translation and Interpretation Certificate
Women's Studies Certificate

Additional UCF Programs

Foreign Study Abroad Program:
Dominica
France
Germany
Italy
Japan
South Africa
Spain

English Study Abroad Program:
Mexico
Scotland
ACCOUNTING:
Minor for Business and Non-Business Majors
College of Business Administration
School of Accounting, BA 437
(407) 823-2871

Credit Hour Requirements 21 hours
Required Courses (9 hrs)
- ACG 2021 Principles of Financial Accounting 3 hrs
- ACG 2071 Principles of Managerial Accounting 3 hrs
- Select one of the following (may not be counted as an elective if selected as a required course):
  - ACG 3131 Financial Accounting Concepts and Analysis 3 hrs
  - ACG 3361 Intermediate Managerial Accounting 3 hrs

Restricted Electives (12 hrs)
Select four from the following (at least two courses must have either an ACG or TAX prefix)
- ACG 3315 Financial Accounting Concepts and Analysis 3 hrs
- ACG 3361 Intermediate Managerial Accounting 3 hrs
- ACG 3141 Intermediate Financial Accounting 3 hrs
- ACG 3901C Accounting and Auditing in the Public Sector 3 hrs
- ACG 4401C Accounting Information Systems 3 hrs
- ACG 4651 Auditing 3 hrs
- ACG 4671 Internal Auditing 3 hrs
- ACG 4932 Approved Special Topics in Accounting 3 hrs
- TAX 4001 Taxation of Business Entities and Transactions 3 hrs
- FIN 3414 Intermediate Corporate Finance 3 hrs
- FIN 4463 Financial Models 3 hrs
- ISM 3263 MIS Techniques 3 hrs
- ISM 4212 Database Management Systems 3 hrs

Other Requirements
- A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
- At least 9 hours used in the minor must be earned at UCF. 
- No credit by exam (TSD, Military credit) may be used.

AEROSPACE STUDIES: Minor
College of Engineering and Computer Science
Air Force ROTC, TR 501-103
Col. William G. Palmbly, 407-823-1247

Credit Hour Requirements 16 hours
Required Courses (16 hrs)
- AFR 1101C The Air Force Today I 1 hr
- AFR 1111C The Air Force Today II 1 hr
- AFR 2130C The Development of Air Power I 1 hr
- AFR 2131C The Development of Air Power II 1 hr
- AFR 3220C Air Force Leadership and Management I 3 hrs
- AFR 3230C Air Force Leadership and Management II 3 hrs
- AFR 4201C Nat Scrtys Affairs & Prep for Active Duty I 3 hrs
- AFR 4210C Nat Scrtys Affairs & Prep for Active Duty II 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

AFRICAN-AMERICAN STUDIES: Minor
College of Arts and Humanities
American Studies Program, CNH 201G
http://www.cas.ucf.edu/africanamericanstudies
J. Stephenson, 407-823-0026

The African American Studies minor is designed to complement a student’s major area of study. The minor requires a core of African American Studies courses as well as a selection of directed electives in Fine Arts, History, English, Modern Languages, Music, Literatures, Political Science, Psychology, Sociology, Anthropology, Film, and Theatre.

Credit Hour Requirements 18 hours
Required Courses (6 hrs)
- AFA 3102 The African American Experience 3 hrs
- AMH 2572 Black American History I 3 hrs

Restricted Electives (12 hrs)

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the program.
- No credit by exam (TSD, Military credit) may be used.
AMERICAN HUMANICS: Minor
American Humanities Minor with National Certificate
College of Health and Public Affairs
Joan Nelson, MBA, MSW - Campus Director
Phone 497-823-0713; e-mail ahminor@mail.ucf.edu

The American Humanities Minor at the University of Central Florida will provide interdisciplinary classroom experience and experiential learning opportunities for students and community residents planning a career as a nonprofit professional working with America’s youth and families. This minor will result in a National Certification in American Humanities Academic Program. Requirements for the minor are the same as for national certification.

Credit Hour Requirements (18 hours)
Required Courses (6 hrs)
PAD 3930  American Humanities Human Service Workshop 3 hrs
PAD 4144  Nonprofit Organizations Management 3 hrs
PAD 4148  Volunteer Management 3 hrs
*Required
SOW 3203 Social Welfare and Community Resources 3 hrs
*SOW 3104 Assessing I - Human Development 3 hrs
*PAD 4204 Developmental Psychology 3 hrs
PPE 3003 Personality Theory 3 hrs
DEP 3464 Psychology of Aging 3 hrs

Current Electives (6 hrs)
Choose at least one course from each of the following four groups.

Group I: General Nonprofit Management, Volunteerism, and Human Development
EDS 4941 Directed Field Experience 3 hrs
PAD 4144 Nonprofit Organizations Management 3 hrs
PAD 4148 Volunteer Management 3 hrs
*SOW 3203 Social Welfare and Community Resources 3 hrs
*SOW 3104 Assessing I - Human Development 3 hrs
*PAD 4204 Developmental Psychology 3 hrs
PPE 3003 Personality Theory 3 hrs
DEP 3464 Psychology of Aging 3 hrs

Group II: Planning & Evaluation and Human Resource Development
PAD 4144 Nonprofit Organizations Management 3 hrs
PAD 4153 Strategic Planning & Implementation 3 hrs
PAD 4325 Program Evaluation for the Public and Nonprofit Organizations 3 hrs
*PAD 4325 Management of Organizations 3 hrs
MAN 3301 Human Resource Management 3 hrs
MAN 4101 Human Relations in Management 3 hrs
MAN 4320 Human Resources, Recruitment & Selection 3 hrs

Group III: Communication & Marketing
PAD 4144 Nonprofit Organizations Management 3 hrs
PAD 4153 Strategic Planning & Implementation 3 hrs
PAD 4325 Program Evaluation for the Public and Nonprofit Organizations 3 hrs
*PAD 4325 Management of Organizations 3 hrs
COM 3110 Business & Professional Communications 3 hrs
GEB 3031 The Cornerstone Course 3 hrs
COM 3411 Marketing Intelligence 3 hrs
MAR 3641 Marketing Intelligence 3 hrs
MAR 4803 Marketing Management 3 hrs

PAD 4144 Nonprofit Organizations Management 3 hrs
ACG 2021 Financial Accounting 3 hrs
ACG 2071 Managerial Accounting 3 hrs
PAD 5850 Grant and Contract Management 3 hrs
PAD 4204 Fiscal Management 3 hrs
PAD 4131 Public Sector Project Management 3 hrs
PAD 4147 Resource Development in the Nonprofit Sector 3 hrs

Or
Public Affairs Emphasis

Restricted Electives Choose at least two from the following (6 credit hours)
PAD 4131 Public Sector Project Management 3 hrs
PAD 4144 Non-Profit Organizations Management 3 hrs
PAD 4147 Resource Development in the Nonprofit Sector 3 hrs
PAD 4204 Fiscal Management 3 hrs
PAD 4325 Program Evaluation for the Public and Nonprofit Organizations 3 hrs

Restricted Electives Choose at least two from the following (6 credit hours)
PAD 4148 Volunteer Management 3 hrs
PAD 4153 Planning and Improvement for Public Organizations 3 hrs
PAD 4223 Public Budgeting 3 hrs

Other Requirements
- Enrollment in American Humanities Certificate Program through AH program office.
- Attendance at one national American Humanities Management Institute (additional fees)
- Membership in UCF American Humanities Student Association

AMERICAN SIGN LANGUAGE: Minor
College of Health and Public Affairs
Department of Communication Sciences and Disorders

The American Sign Language Minor addresses a growing interest in American Sign Language (ASL) as a minority and indigenous language in the United States. Through the minor students not only acquire a second language that they may use to communicate with the deaf community, but they also learn a non-Indo-European linguistic structure. The minor is available to students in all disciplines who would find it a useful addition to their major, in particular those majoring in interpersonal and organizational communication, general and special education, communicative disorders, criminal justice, the health professions, and social work. Additionally, a minor in American Sign Language will serve as a valuable confirmation for employers and graduate schools of a student’s specialized knowledge of this language.

Credit Hour Requirements (22 hours)
Required Courses
SPA 4612 Introduction to American Sign Language 4 hrs
SPA 4613 Intermediate American Sign Language 4 hrs
SPA 4614C American Sign Language III 4 hrs
SPA 4615 American Sign Language IV 4 hrs
SPA 4617 Signed Language Linguistics 3 hrs

Choose One of the Following:
SPA 2631 Issues in Deafness 3 hrs
SPA 3632 Communication Disorders in the Deaf* 3 hrs
SPA**** Educational Implications of Deafness 3 hrs

Other Requirements
- A minimum of “C-” (1.75) is required in each course.
- Students must earn an overall GPA of 2.0 in courses used to complete the minor.
- At least 12 hours used in the minor must be earned at UCF with the Department of Communication Sciences and Disorders.
- No credit by exam (TSD, Military credit) Internship or Independent Study credit may be used toward the minor.

AMERICAN STUDIES: Minor
College of Arts and Humanities

The American Studies Minor addresses a growing interest in American studies and multiculturalism. Students acquire a second language that they may use to communicate with the deaf community, but they also learn a non-Indo-European linguistic structure. The minor is available to students in all disciplines who would find it a useful addition to their major, in particular those majoring in interpersonal and organizational communication, general and special education, communicative disorders, criminal justice, the health professions, and social work. Additionally, a minor in American Sign Language will serve as a valuable confirmation for employers and graduate schools of a student’s specialized knowledge of this language.

Credit Hour Requirements (21 hours)
Required Courses
Select one course in each of the three categories below

Literature and Humanities
AML 3031 American Literature I
AML 4101 American Novel
AML 4261 Literature of the South
AML 3682 Ethnic Literature in America

Social Sciences
POS 3413 The American Presidency
POT 3204 American Political Thought
SYD 3700 Race and Ethnic Minorities in the U.S.
SYD 3630 Sociology of Popular Culture

History
AMH 3423 Florida History 1845-present
AMH 3561 Women in American History I
AMH 4110 Colonial America, 1607-1763
AMH 4130 The Age of the American Revolution
AMH 4311 American Culture I

Other Requirements
- Membership in UCF American Humanities Student Association

For more information, please contact the AH program office.
ANTHROPOLOGY: Minor

College of Sciences
Department of Sociology & Anthropology, PH 403
http://cas.ucf.edu/soc_anthro
anthropology@ucf.edu
Contact: A. Chase, 407-823-2227

The Anthropology minor develops a holistic understanding of the past and present human condition. Four different concentrations are delimited within the Anthropology minor.

Credit Hour Requirements 18 hours

<table>
<thead>
<tr>
<th>A. Concentration in General Anthropology</th>
<th>12 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>The following 2000 level courses must be taken:</td>
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</tr>
<tr>
<td>ANT 2000 General Anthropology</td>
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</tr>
<tr>
<td>ANT 2100 Archaeology &amp; Rise of Human Culture</td>
<td></td>
</tr>
<tr>
<td>ANT 2410 Cultural Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANT 2511 The Human Species</td>
<td></td>
</tr>
<tr>
<td>Select two upper level (3000-5000) courses in Anthropology</td>
<td>6 hrs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B. Concentration in Archaeology</th>
<th>6 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>The following 2000 level courses must be taken:</td>
<td></td>
</tr>
<tr>
<td>ANT 2000 General Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANT 2100 Archaeology &amp; Rise of Human Culture</td>
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</tr>
<tr>
<td>Select from the following:</td>
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<tr>
<td>ANT 4101 Archaeological Sciences</td>
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<tr>
<td>ANT 3159 Florida Archaeology</td>
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<tr>
<td>ANT 3115 Archaeological Method and Theory</td>
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<tr>
<td>ANT 3142 Old World Prehistory</td>
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<tr>
<td>ANT 3145 Archaeology of Complex Societies</td>
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<tr>
<td>ANT 3163 Mesoamerican Archaeology</td>
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<td>ANT 3164 Ancient Incas</td>
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<tr>
<td>ANT 3168 Maya Archaeology</td>
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<tr>
<td>ANT 4184 Mortuary Archaeology</td>
<td></td>
</tr>
<tr>
<td>ANT 3595 Life and Death in Ancient Egypt</td>
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</tr>
<tr>
<td>ANT 4144 Prehistory of North America</td>
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<tr>
<td>ANT 4153 North American Archaeology</td>
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<tr>
<td>ANT 4180C Seminar in Laboratory Analysis (or three 1 hr labs)</td>
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<tr>
<td>ANT 4824 Advanced Archaeological Field Work</td>
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<tr>
<td>ANG 5158 Field Research In Maya Studies</td>
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<tr>
<td>ANG 5166 Problems of Maya Archaeology</td>
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<tr>
<td>ANG 5167 Maya Hieroglyphs</td>
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<tr>
<td>ANG 5228 Maya Iconography</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>C. Concentration in Physical Anthropology</th>
<th>6 hrs</th>
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</thead>
<tbody>
<tr>
<td>The following 2000 level courses must be taken:</td>
<td></td>
</tr>
<tr>
<td>ANT 2000 General Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANT 2511 The Human Species</td>
<td></td>
</tr>
<tr>
<td>Take four of the following courses:</td>
<td>12 hrs</td>
</tr>
<tr>
<td>ANT 4184 Mortuary Archaeology</td>
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<tr>
<td>ANT 4467 Nutritional Anthropology (or ANG 5467)</td>
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<tr>
<td>ANT 3541 Biobehavioral Anthropology</td>
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<tr>
<td>ANT 3550 Primateology</td>
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<tr>
<td>ANT 4521C Forensic Anthropology</td>
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<tr>
<td>ANT 4462 Medical Anthropology</td>
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<tr>
<td>ANT 4516 Human Biological Diversity</td>
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<tr>
<td>ANT 4525C Human Osteology</td>
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<tr>
<td>ANT 4528C Advanced Forensic Anthropology</td>
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<tr>
<td>ANT 4586 Human Origins</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>D. Concentration in Cultural Anthropology</th>
<th>6 hrs</th>
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<tbody>
<tr>
<td>The following 2000 level courses must be taken:</td>
<td></td>
</tr>
<tr>
<td>ANT 2000 General Anthropology</td>
<td></td>
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<tr>
<td>ANT 2410 Cultural Anthropology</td>
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<tr>
<td>Take four of the following courses:</td>
<td>12 hrs</td>
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<tr>
<td>ANT 3159 Florida Archaeology</td>
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<tr>
<td>ANT 3115 Archaeological Method and Theory</td>
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<tr>
<td>ANT 3142 Old World Prehistory</td>
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<tr>
<td>ANT 3145 Archaeology of Complex Societies</td>
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<tr>
<td>ANT 3163 Mesoamerican Archaeology</td>
<td></td>
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<tr>
<td>ANT 3164 Ancient Incas</td>
<td></td>
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<tr>
<td>ANT 3168 Maya Archaeology</td>
<td></td>
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<tr>
<td>ANT 4184 Mortuary Archaeology</td>
<td></td>
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<tr>
<td>ANT 3595 Life and Death in Ancient Egypt</td>
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</tr>
<tr>
<td>ANT 4144 Prehistory of North America</td>
<td></td>
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<tr>
<td>ANT 4153 North American Archaeology</td>
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<td>ANG 5167 Maya Hieroglyphs</td>
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<tr>
<td>ANG 5228 Maya Iconography</td>
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</tr>
</tbody>
</table>

Minors

ANTHROPOLOGY IN MULTICULTURAL STUDIES: Minor

College of Sciences
Department of Sociology & Anthropology, PH 403
http://www.cas.ucf.edu/soc_anthro
anthropology@ucf.edu
Contact: A. Chase 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

<table>
<thead>
<tr>
<th>Required Course</th>
<th>3 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
<td></td>
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<tr>
<td>ANT 2000 General Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANT 2410 Cultural Anthropology</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Restricted Electives</th>
<th>15 hrs</th>
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</thead>
<tbody>
<tr>
<td>Select five of the following. Substitutions require prior consent of the Anthropology Coordinator.</td>
<td></td>
</tr>
<tr>
<td>ANT 3164 The Incas</td>
<td></td>
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<tr>
<td>ANT 3212 Peoples of the World</td>
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<tr>
<td>ANT 3241 Magic, Ritual, and Belief</td>
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<tr>
<td>ANT 3245 Native American Religions</td>
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<tr>
<td>ANT 3302 Sex, Gender and Culture</td>
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<tr>
<td>ANT 3312 Ethnology of North Amer Indians</td>
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<tr>
<td>ANT 3332 People and Cultures of Latin America</td>
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<tr>
<td>ANT 3360 Language and Culture</td>
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<tr>
<td>ANT 3430 Caribbean Cultures</td>
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<tr>
<td>ANT 3316 Black/Seminole Relations</td>
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<tr>
<td>ANT 3319 The Anthropology of Diaspora</td>
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<tr>
<td>ANT 4438 Anthropology of Tourism</td>
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<tr>
<td>ANT 4467 Nutritional Anthropology</td>
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<tr>
<td>ANT 3701 Applied Anthropology</td>
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<tr>
<td>ANT 4702 Culture, Power, and Development</td>
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<tr>
<td>ANT 4266 Economic Anthropology</td>
<td></td>
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<tr>
<td>ANT 4308 Gender Issues in Latin America</td>
<td></td>
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<tr>
<td>ANT 4352 African Societies and Cultures</td>
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<tr>
<td>ANT 4354 Postcolonial Africa</td>
<td></td>
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<tr>
<td>ANG 5167 Maya Hieroglyphs</td>
<td></td>
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<tr>
<td>ANG 5228 Maya Iconography</td>
<td></td>
</tr>
<tr>
<td>ANG 6524 Contemporary Maya</td>
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</tr>
</tbody>
</table>

Other Requirements

- Earn a grade of “C” (2.0) or better in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF with in the department.

| ANT 4184 Mortuary Archaeology | |
| ANT 3595 Life and Death in Ancient Egypt | |
| ANT 4144 Prehistory of North America | |
| ANT 4153 North American Archaeology | |
| ANT 4180C Seminar in Laboratory Analysis (or three 1 hr labs) | |
| ANT 4824 Advanced Archaeological Field Work | |
| ANG 5158 Field Research In Maya Studies | |
| ANG 5166 Problems of Maya Archaeology | |
| ANG 5167 Maya Hieroglyphs | |
| ANG 5228 Maya Iconography | |
| ANG 6524 Contemporary Maya | |

Other Requirements

- Earn a grade of “C” (2.0) or better in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF with in the department.
Minors

the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Not open to Anthropology majors.

ART HISTORY: Minor
College of Arts and Humanities
Art Department, VAB 117
http://www.art.ucf.edu/
art@ucf.edu
J. Chavda, 407-823-2676

Credit Hour Requirements 27 hours
Required Courses (15 hrs)
ARH 2050 The History of Art I 3 hrs
ARH 2051 The History of Art II 3 hrs
ARH 4310 Italian Renaissance Art 3 hrs
ART 4430 19th Century Art 3 hrs
ART 4450 20th Century Art 3 hrs

Non-western Course Requirement (3 hrs)
Select from the following:
ARH 4545 Art of India
ARH 3520 African Art
ARH 4655 Meso American Art

Restricted Elective: (3 hrs)
ARH 4350 Baroque Art
ARH 4200 Medieval Art
ARH 4892 Women in Art
ARH 4800 Theory and Criticism of the Visual Arts

6 hours of electives (6 hrs)
Two additional ARH 3XXX-4XXX courses

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least two of the required courses must be regularly scheduled 3000-4000 level courses in a single area of specialization in the Art Department.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ART - STUDIO: Minor
College of Arts and Humanities
Art Department, VAB 117
http://www.art.ucf.edu/
art@ucf.edu
J. Chavda, 407-823-2676

Credit Hour Requirements 24 hours
Required Courses (18 hrs)
ARH 2050 History of Western Art I 3 hrs
ARH 2051 History of Western Art II 3 hrs
ART 2201C Design Fundamentals 2-D 3 hrs
ART 2203C Design Fundamentals 3-D 3 hrs
ART 2300C Drawing Fundamentals I 3 hrs
ART 2301C Drawing Fundamentals II 3 hrs

Restricted Upper Division Courses (6 hrs)
Six semester hours of studio art in one area of specialization at the 3000-4000 level

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least six of the required hours must be regularly scheduled 3000-4000 level courses in one area of specialization and taken at UCF.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ASIAN STUDIES: Minor
College of Arts and Humanities
http://www.cas.ucf.edu/
E-mail: stebbins@mail.ucf.edu

An interdisciplinary minor in which several UCF departments participate in order to offer students a basic and well-rounded background in the field. Courses are to be selected in consultation with a departmental advisor.

Credit Hour Requirements 21 hours
Required Course (3 hrs)
HUM 3401 Asian Humanities

Restricted Electives (18 hrs)
Approved courses (see department for listing)

Foreign Language Requirement (0-8 hrs)
One year or the equivalent proficiency examination. Students taking foreign language classes must complete at least six hours in the sequence chosen (e.g. Chinese, Japanese).

Other Requirements
- Students must earn at least a “C” (2.0) in each course used to satisfy the minor.
- At least fifteen credits hours must be earned in upper level credits.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used in the minor without prior approval by the director.

ASTRONOMY: Minor
College of Sciences
Department of Physics, MAP 310
E-mail: physics@ucf.edu
Contact: A Physics Advisor, 407-823-2325

Credit Hour Requirements 20 hrs
Required Course (18 hrs)
PHY 2048 Physics for Engineers & Scientists I 3 hrs
AST 2002 Introductory Astronomy 3 hrs
AST 3722C Observational Astronomy 3 hrs
AST 3110 Solar System Astronomy 3 hrs
AST 3211 Stellar Astrophysics 3 hrs
AST 3402 Galaxies and Cosmology 3 hrs

Restricted Electives (2 hrs)
Select either:
PHY 2049 Physics for Engineers & Scientists II or 3 hrs
PHY 204BL Physics for Engineers and Scientists I Lab and 1 hr
AST 2002L Introductory Astronomy Lab 1 hr

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

BIOLOGY: Minor
College of Sciences
Biology Department, BL 301
http://www.cas.ucf.edu/biology
E-mail: biology@ucf.edu
Contact: F. Loguidice, 407-823-2141

Credit Hour Requirements 31 hrs
Required Courses (31 hrs)
BSC 2010C Biology I 4 hrs
BSC 2011C Biology II 4 hrs
CHM 2045C Chemistry Fundamentals I 4 hrs
CHM 2046 Chemistry Fundamentals II 3 hrs
CHM 2210 Organic Chemistry 3 hrs
Minors

Credit Hour Requirements 24 hrs
Required Accounting Course(s) (6 hrs)
ACG 2021 Principles of Financial Accounting
ACG 2071 Principles of Managerial Accounting

Required Courses (15 hrs)
ECO 2013 Macroeconomics
ECO 2023 Microeconomics
FIN 3403 Business Finance
MAN 3025 Management of Organizations
MAR 3023 Marketing

Restricted Elective (3 hrs)
A 3000 level business core course

Other Requirements
- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor and an overall GPA in the minor of 2.0 is required.
- Grades below "C" (2.0) are not accepted.
- At least 12 hours of upper division credit used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

BUSINESS: Minor for Non-Business Majors
College of Business Administration, BA2-101
B. Moore, 407-823-5256, bmoore@bus.ucf.edu

Credit Hour Requirements 21 hrs
Required Courses (21 hrs)
CHM 2045C Chemistry Fundamentals I
CHM 2046 Chemistry Fundamentals II
CHM 2046L Chemistry Fundamentals Laboratory
CHM 2210 Organic Chemistry I
CHM 2211 Organic Chemistry II
CHM 2211L Organic Laboratory Techniques I
CHM 31020 Analytical Chemistry

Restricted Upper Division Electives (7 hrs)
At least one course must be selected from group I and the remaining from group I and II.

Group I: Select at least one course
CHM 3212L Organic Laboratory Techniques II
CHM 4130C Advanced Analytical Laboratory Technique
BCH 4100L Biochemical Methods
CHS 3530C Forensic Analysis of Controlled Substances
CHM 3411L Physical Chemistry Laboratory
CHM 5451C Polymer Chemistry Laboratory

Group II:
BCH 4053 Biochemistry I
BCH 4054 Biochemistry II
CHM 3410 Physical Chemistry I
CHM 3411 Physical Chemistry II
CHM 3422 Applied Physical Chemistry
CHM 5225 Advanced Organic Chemistry I
CHM 4220 Organic Chemistry III

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 11 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

COACHING: Minor
College of Education
Department of Teaching and Learning Principles, ED 209
http://pegasus.cc.ucf.edu/~ucfphyed/minors.htm
Program Coordinator: Dr. Patricia Higginbotham
ED 320-H, 407-823-2050
E-mail: higginbp@mail.ucf.edu

The coaching minor is designed to provide a limited, but substantive experience in the field of coaching. The state of Florida requires a coaching endorsement, which includes nine hours (Human Injuries, Coaching Theory, and a Coaching Specialization course), for all persons certified to teach. This minor is appropriate for those students who plan to coach and/or are seeking a career in the fields of Physical Education and sport. The following courses will give the student a coaching endorsement as well as strengthen the marketability of the student’s major program. This Minor is available for students in the 2001 Catalog Year and beyond.

Credit Hour Requirements 18 hours
Required Courses (18 hrs)
*PET 2622C Human Injuries 3 hrs
PET 3765 Coaching Theory 3 hrs
PET 3493 Sports Ethics 3 hrs
PET 4215 Motivational Aspects of Athletic Performance 3 hrs
PET 4763 Coaching Methods and Principles 3 hrs
Select one course from the following:
PES 2624 Coaching Football or 3 hrs
PES 3644 Coaching Basketball or
PES 3324 Coaching Volleyball
*If the student has completed this course at a community college it can be transferred into the program.

Other Requirements
- An overall GPA of 2.0 is required to satisfy the minor.
- No grades below "C-" (1.75) and no "S" grades will be accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No TSD or Military credit may be used.
- Internship or Independent Study credit cannot be used toward the minor.

COGNITIVE SCIENCES: Minor
College of Arts and Humanities
Philosophy Department, CNH 411
http://www.cas.ucf.edu/philosophy/
E-mail: philosophy@ucf.edu
Jennifer Mundale, 407-823-2273; Fax: 407-823-6658

The cognitive sciences minor provides an interdisciplinary approach to the study of mind, brain, and cognition, broadly construed. It complements the background of students intending to pursue graduate degrees in cognitive science, computer science, philosophy, psychology, biology, neuroscience, and medicine, as well as students with more immediate career goals in fields such as neural network modeling, neuroimaging, information technology, clinical or counseling psychology, biotechnology, and others.

Credit Hour Requirements 21 hrs
Note: It is the student’s responsibility to satisfactorily complete all prerequisite courses prior to registering for each course. Students must check the most current catalog before registering, and abide by the prerequisites in effect at that time.

Foundation Courses (15 hrs)
Select from at least 4 subject areas

CHS 4200 Concepts in Industrial Chemistry
CHM 5235 Applied Molecular Spectroscopy
CHM 5450 Polymer Chemistry
CHS 4215 Environmental Chemistry

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 11 hours used in the minor must be earned at UCF within the department, with a minimum GPA of 2.0.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 11 hours used in the minor must be earned at UCF within the department, with a minimum GPA of 2.0.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
Minors

Neuroscience
- PSB 3002 Physiological Psychology (PR: PSY 2012)
- PSB 4240C Neuropsychology (PR: PSB 3002)
- ZOO 744 Neurobiology (PR: BSC 2010C)
- PSB 4422 Brainwaves and Behavior (PR: PSB 3002)

Philosophy
- PHI 3320 Philosophy of Mind (PR: PHI 2010 or C.I.)
- PHI 3323 Minds and Machines (PR: PHI 2010 or C.I.)
- PHI 4341 Ways of Knowing (PR: PHI 2010)
- PHI 3451 Philosophy of Psychology (PR: Junior or C.I.)
- PHI 4400 Philosophy of Science

Psychology
- EXP 3804C Cognitive Psychology (PR: PSY 2012)
- EXP 4507C Advanced Human Memory and Cognition (PR: PSY 3213C and EXP 3604C)
- EXP 3204C Perception (PR: PSY 3212, PSY 3213C)

Computer Science and Information Technology
- CAP 4453 Robot Vision (PR: COP 3530C and MAC 2312, or C.I.)
- CAP 4630 Artificial Intelligence (PR: COP 3530C)
- EEL 3520 Information Theory (PR: MAD 2104 or any calculus course; not open to EE or CPé majors)
- EEL 3525C Signal Analysis & Communications (PR: EEL 3004)

Language and Linguistics
- LIN 3103 Principles of Linguistics (PR: ENC 1102)
- LIN 3716 Language Development: Birth Through 8 Years (PR: DEP 2004)
- LIN 3717 Language Development: 9-18 Years (PR: LIN 3716)
- LIN 3640 Psycholinguistics

Restricted Electives (6 hrs)
- ANT 3541 Biobehavioral Anthropology
- ANT 3550 Primatology (PR: ANT 2511 or C.I.)
- ANT 3640 Language and Culture (PR: Sophomore standing)
- ANT 4586 Human Origins (PR: ANT 2511)
- CAP 4630 Introduction to Artificial Intelligence (PR: COP 3530C)
- COP 4520 Concepts of Parallel Distributed Processing (PR: COP 3530C and COP 3402C)
- CAP 5015 Multimedia Compression on the Internet (PR: senior or graduate student)
- CAP 5415 Computer Vision (PR: COP 3530C)
- CAP 5512 Evolutionary Computing
- COP 4520 Concepts of Parallel and Distributed Processing (PR: COP 3530C and COP 3402C)
- LIN 4711 Language Analysis (PR: LIN 3716 and LIN 3717)
- LIN 4711L Language Analysis Lab (PR: LIN 3716 and LIN 3717)
- PHI 3626 Advanced Ethics in Science and Technology (PR: COP 3502C or D2G 2000 or C.I.)
- PHI 2101 Critical Thinking
- PHI 2101 Formal Logic I
- PHI 4500 Metaphysics (PR: Philosophy Major or C.I.)
- PHI 4321Philosophies of Embodiment (PR: Junior standing and either PHI 2010, PHI 2011, PHI 2101, or C.I.)
- MAP 4103 Mathematical Modeling I (PR: MAC 2311 or MAC 2281 and MAP 2302)
- PSY 4025 The Psychology of Art (PR: PSY 2012 and ARH 205x)
- PSY 3213C Research Methods in Psychology (PR: PSY 2012 and STA 204RC or STA 2023)
- EXP 3204C Perception (PR: PSY 3212 and PSY 3213C)

Other Requirements
- A minimum GPA of 1.75 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- Students must earn an overall minimum of 2.0 GPA in the courses used to satisfy the minor.
- At least 19 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

Licensed Speech Language and Audiology Assistant
This state license may be obtained by completing the minor plus one additional course in the disorders area as recommended by the academic advisor.

COMMUNICATION SCIENCES AND DISORDERS: Minor
College of Health and Public Affairs
Department of Communication Disorders
HPA2 Suite 101
Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798
E-mail: jschwart@mail.ucf.edu
http://www.comdis.ucf.edu

Credit Hour Requirements

Required Courses
- SPA 3471 Communication Disorders in Literature & Media 3 hrs
- SPA 3111 Basic Phonetics 3 hrs
- SPA 3112L Basic Phonetics Lab 1 hr
- LIN 3716 Language Development: Birth Through 8 Years 3 hrs
- SPA 3101 Physiological Bases of Speech and Hearing 3 hrs
- SPA 4032 Audiology 3 hrs
- SPA 4400 Language Disorders Across the Lifespan 3 hrs
- SPA 4476 Speech Disorders Across the Lifespan 3 hrs

Other Requirements
- A minimum GPA of 1.75 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used toward the minor.

COMMUNITY ARTS—PAVE: Minor
College of Arts and Humanities
Department of Art, VAB 117
http://www.art.ucf.edu/
E-Mail: art@ucf.edu
Kevin Haran, 407-823-5203

Minor Requirements

Partners in Art in Visual Education (PAVE)
A minor in Community Arts—PAVE is offered for the student who is majoring in Art, Music, Theatre, or English (with a Creative Writing focus). Students interested in the minor should contact the department chair.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.

COMMUNITY ARTS—PAVE: Minor

Other Requirements
- A minimum grade of “C” (2.0) is required in all courses used to satisfy the minor.
- 18 hours must be taken at the upper division.
- No more than 10 credit hours may be used both toward credit for a major and the cognitive sciences minor.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study require prior approval from the advisors to be used toward the minor.

COMPUTER SCIENCE: Minor
College of Engineering and Computer Science
School of Electrical Engineering & Computer Science, Harris Corp Engineering Ctr, Rm 245
E-mail: computerscience@ucf.edu
http://www.cs.ucf.edu

Mark Llewellyn, 407-823-2341

Credit Hour Requirements

Required Courses
- COP 3223 Intro to Programming with C 3 hrs
- COP 3330 Intro to Object Oriented Programming 3 hrs
- COP 3502C Computer Science I 3 hrs
- COP 3503C Computer Science II 4 hrs
- COP 3520C Computer Science II 4 hrs
- COP 3103C Introduction to Discrete Structure or 3 hrs
- MAD 2104 Foundations of Discrete Mathematics 3 hrs

Other Requirements
- A minimum GPA of 1.75 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 19 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used toward the minor.
**CRIMINAL JUSTICE: Minor**

**College of Health and Public Affairs**

**Department of Criminal Justice and Legal Studies**

HPA1 311

Dr. Mary Ann Eastep, 407 823-3598

cjadwise@mail.ucf.edu

**Credit Hour Requirements**

18 hours

**Required Courses**

- Criminal Justice System 3 hrs
- Crime in America 3 hrs

**Restricted Electives**

(12 hrs)

- Prosecution and Adjudication 3 hrs
- The Corrections and Penology 3 hrs
- Police and Society 3 hrs

**Internship, cooperative education, or Independent Study credit cannot be used toward the minor.**

No credit by exam (TSD, Military credit) may be used.

At least 9 hours used in the minor must be earned within the department.

No credit by exam (TSD, Military credit) may be used.

Internship or Independent Study credit cannot be used toward the minor.

**DANCE: Minor**

**College of Arts and Humanities**

**Theatre Department, UTC 180**

http://www.theatre.ucf.edu

bvernon@mail.ucf.edu

Brian Vernon, 407-823-2862

**Credit Hour Requirements**

18 hrs

**Entrance Requirement**

A successful audition

**Required Courses**

(11 hrs)

- Dance History I 3 hrs
- Dance Improvisation/Composition I 3 hrs
- Modern Dance I 2 hrs
- Ballet I 2 hrs
- Dance Performance 1 hr

**Electives**

(7 hrs)

- Jazz Dance I 2 hrs
- Jazz Dance II 2 hrs
- Jazz Dance III 2 hrs
- Tap Dance I 2 hrs
- Tap Dance II 2 hrs
- Tap Dance III 2 hrs
- Ballet I 2 hrs
- Ballet II 2 hrs
- Modern Dance II 2 hrs
- Modern Dance III 2 hrs
- World Dance 2 hrs
- Choreography Practicum 2 hrs
- Dance Performance 1 hr
- Theatre Participation 1 hr

**Other Requirements**

- Earn a grade of "C" (2.0) or better in all courses used to satisfy the minor.
- At least 14 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study credit may be used in the minor only with prior written permission.
- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 9 hours used in the minor must be earned within Computer Science at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Earn a grade of "C" (2.0) or better in all courses used to satisfy the minor.
- A minimum of 3 different dance styles must be completed in the minor.

**DEAF STUDIES: Minor**

**College of Health and Public Affairs**

**Department of Communication Sciences and Disorders**

http://www.cohpa.ucf.edu/comdis

HPA II, Room 101

The Deaf Studies Minor addresses a growing interest in Deaf culture in the United States. Through the minor students not only acquire a second language that they may use to communicate with the Deaf community, but they also discover a rich and complex cultural group. The minor is available to students in all disciplines who would find it a useful addition to their major, in particular those majoring in interpersonal and organizational communication, psychology, sociology, the health professions, and social work. Additionally, a minor in Deaf Studies will serve as a valuable confirmation for employers and graduate schools of a student’s specialized knowledge in the field.

**Credit Hour Requirements**

18 hrs

**Required Courses**

- Issues in Deafness 3 hrs
- Introduction to American Sign Language 4 hrs
- Intermediate American Sign Language 4 hrs
- American Sign Language III 4 hrs

**Choose One of the Following:**

- American Sign Language IV 4 hrs
- Communication Disorders in the Deaf 3 hrs
- Signed Language Linguistics 3 hrs

**Other Requirements**

- A minimum of "C" (1.75) is required in each course.
- No credit by exam (TSD, Military credit) may be used.
- A minimum grade of “C-“ (1.75) is required in each course.
- At least 12 hours used in the minor must be earned at UCF within the Department of Communication Sciences and Disorders.
- A grade of “C” (2.0) or better is required in each course used to complete the minor.

**DIGITAL MEDIA: Minor**

**College of Arts and Humanities**

**Digital Media Program, 500 OTC**

http://www.creat.cas.ucf.edu

bowers@mail.ucf.edu

Clint Bowers, 407-823-6100

**Credit Hour Requirements**

18 hrs

**Required Courses**

- Principles of Digital Media 12 hrs
- Digital Imagery 3 hrs
- Media for e-Commerce I 3 hrs
- Internet Interaction 3 hrs
- Concepts in Computer Science 3 hrs

**Restricted Elective Courses**

6 hrs

**Select two courses:**

- Internet Software Design 3 hrs
- Assembling Digital Media 3 hrs
- Interactive Entertainment 3 hrs
- Media for e-Commerce I 3 hrs
- Creative Digital Devices 3 hrs
- Modeling for Realtime Graphics 3 hrs
- Converging Media 3 hrs
- Autonomous Media 3 hrs
- Game Engines 3 hrs
- Game Design 3 hrs

**Other Requirements**

- A minimum grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- A minimum of 3 different dance styles must be completed in the minor.
- Participation on a minimum of one departmental dance concert.
- Credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit can be used in the minor only with prior written permission.
Minors

EARLY CHILDHOOD EDUCATION: Minor
College of Education
Department of Child, Family, and Community Sciences
ED 209
http://pegasus.cc.ucf.edu/~eceucf/
Program Coordinator: Lynn Hartlie (Until August 2006)
ED 206, 407-823-0045
E-mail: ece@mail.ucf.edu

The Early Childhood Education minor is intended to provide a limited, but substantive experience in the fields of education and early childhood education. The minor is intended for University students enrolled outside the College of Education and does not lead to teacher certification or admission to the College of Education. The minor is appropriate for students who are seeking an enhanced understanding of education or are considering a career working with young children in the fields of education, early childhood education, social work, psychology or health services. This minor will strengthen the marketability of the student’s major program. This Minor is available for students in the 2003 Catalog Year and beyond.

Credit Hour Requirements 21 hrs
Required Courses (18 hrs)
RED 3310 Emergent Literacy 3 hrs
ECC 3208 Play Development 3 hrs
EDF 3307 Learning Environments & Guidance 3 hrs
EEX 3450 Young Children with Special Needs 3 hrs
EEX 4751 Parent Involvement 3 hrs
TSL 4080 Theory and Practice of Teaching ESOl 3 hrs

Restricted Electives (choose one) (3 hrs)
EDF 3740 Foundations of ECE 3 hrs
EDF 3120 Observing Child Growth & Development 3 hrs
LAE 3414 Children’s Literature 3 hrs
RED 3012 Foundations of Reading 3 hrs
EEC 4731 Health Safety & Nutrition 3 hrs
RED 4311 Development of Literacy 3 hrs
MAE 4300 Exploring Mathematics 3 hrs
SCE 4023 Teaching Science & Technology 3 hrs

Other Requirements:
- Completion of all parts of the CLAST with appropriate passing scores, not alternatives, or completion of an A.A. degree from a Florida public post secondary institution, including completion of CLAST with appropriate scores or alternatives.
- A minimum GPA of 2.5 of all Gordon Rule is required.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (CLEP, Military credit) may be used. Transfer credits from other universities will be considered.

Note: Completion of the minor does not complete the requirements for certification in Early Childhood Education nor does it constitute admission to the College of Education.

ECONOMICS: Minor
(for both Business Majors and non-Business Majors)
College of Business Administration
Department of Economics, BA 318
R. Pennington, 407-823-2940, robertp@bus.ucf.edu

Credit Hour Requirements 18 hrs
Required Courses (9 hrs)
ECO 2001 Macroeconomics 3 hrs
ECO 2003 Microeconomics 3 hrs
Select one of the following two courses:
ECO 3010 Intermediate Price Theory 3 hrs
ECO 3203 Aggregate Econ Conditions Anal 3 hrs

Upper Division Restricted Electives (9 hrs)
Select from any ECO, ECP or ECS courses at the 3000-4000 level, excluding ECO 3401. Note: ECO 3401 is a pre-requisite for ECO 3411.

Other Requirements:
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- 3 hours of Internship or Independent Study credit can be used toward the minor with prior approval of the economic advisor.

EMERGENCY MANAGEMENT AND HOMELAND SECURITY: Minor
College of Health and Public Affairs
Department of Public Administration
HPA2 238
Mr. Robert Morin, 407-823-2604; fax: 407-823-5651
Email: rmorin@mail.ucf.edu

The minor in emergency management and homeland security provides students with an opportunity to comprehensively study the disaster management cycle, including emergency planning, mitigation, response and recovery. In an age of dense population, increased terrorism, unpredictable weather and high public expectations of risk reduction and public leadership, this is an exciting area of study. Students who complete a minor in emergency management and homeland security gain additional insight and knowledge that will help them find positions in various federal, state and local government or nonprofit organizations. Some of these may include the Environmental Protection Agency, Occupational Health and Safety Administration, the Orange County Emergency Management Division, the Federal Emergency Management Agency, the Department of Homeland Security and state and local Homeland Security agencies.

Credit Hour Requirements 18 hrs
Core Courses (15 hrs)
PAD 4110 Intergovernmental Administration 3 hrs
PAD 4392 Emergency Management and Homeland Security 3 hrs
PAD 4712 Information Systems for Public Managers and Planners 3 hrs
PAD 4395 Disaster Response and Recovery 3 hrs
PAD 4390 Hazard Mitigation and Preparedness 3 hrs

Restricted Electives (select one) (3 hrs)
CCJ 4661 Conflict & Terrorism 3 hrs
HA 4538 Health Issues in Disasters 3 hrs

Other Requirements:
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) or “S” grades are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- Internship or Independent Study cannot be used toward the minor.

ENGLISH - CREATIVE WRITING: Minor
College of Arts and Humanities
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 21 hrs
Required Course (3 hrs)
CRW 3013 Creative Writing for English Majors 3 hrs

Restricted Elective Courses (6 hrs)
Select one course after completing CRW 3013
CRW 3120 Fiction Writing Workshop 3 hrs
CRW 3111 Creative Nonfiction Writing 3 hrs
CRW 3310 Poetry Writing Workshop 3 hrs

Restricted Upper Division Electives (12 hrs)
Select one course (PR: CRW 3110)
CRW 4122 Advanced Fiction Writing Workshop 3 hrs
CRW 4224 Advanced Nonfiction Workshop 3 hrs
CRW 4320 Advanced Poetry Writing Workshop 3 hrs

Other Requirements:
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- 3 hours of Internship or Independent Study credit can be used toward the minor with prior approval of the economic advisor.
Other Requirements
- A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - LINGUISTICS: Minor
College of Arts and Humanities
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 18 hrs

Required Courses (9 hrs)
- LIN 3010 Introduction to Linguistics 3 hrs
- LIN 4100 History of the English Language 3 hrs
- LIN 4680 Modern English Grammar 3 hrs

Restricted Upper Division Electives (9 hrs)
- LIN 4643 Cross Cultural Communication 3 hrs
- LIN 4660 Linguistics and Literature 3 hrs
- LIN 4801 Language and Meaning 3 hrs
- LIN 5137 Linguistics 3 hrs
- ANT 3640 Language and Culture 3 hrs
- PHI 4000 Philosophy of Science 3 hrs
- or any course approved by the Linguistics Committee

Other Requirements
- A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - LITERATURE: Minor
College of Arts and Humanities
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 21 hrs

Required Course (3 hrs)
- ENG 3014 Theories and Techniques of Lit Study (PR for all 4000 level AML, ENG, ENL, and LIT courses)

Restricted Upper Division Electives (18 hrs)
- English courses with AML, ENG, ENL, or LIT prefixes chosen by student and departmental advisor

Other Requirements
- A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF within the department, and must be regularly scheduled, upper level courses.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - TECHNICAL WRITING & EDITING: Minor
College of Arts and Humanities
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 18 hrs

Choose 18 hours from the following
- ENC 3211 Theory & Practice of Tech Writing 3 hrs
- ENC 3241 Writing for the Technical Professional 3 hrs
- ENC 4215 Technical Publication and Project Management 3 hrs
- ENC 4218 The Visual Elements in Technical Communication 3 hrs
- ENC 4293 Documentation and the Collaborative Process 3 hrs
- ENC 4294 Documentation and Client-Based Collaboration 3 hrs
- ENC 4295 Capstone Experience in Technical Writing 3 hrs

Other Requirements
- A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

Students completing the minor may intern with a Central Florida corporation

ENGLISH - WRITING: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 18 hrs

Restricted Elective Courses (18 hrs)
Any 3000 or 4000 level ENC or CRW classes for which the student has met the prerequisites, including
- CRW 3013 Creative Writing for English Majors
- CRW 3120 Fiction Writing Workshop
- CRW 3211 Creative Nonfiction Writing
- CRW 3310 Poetry Writing Workshop
- CRW 3311 Structure of Verse
- CRW 3610 Writing Scripts
- CRW 4122 Advanced Fiction Writing Workshop
- CRW 4123 Science Fiction Writing
- CRW 4224 Advanced Nonfiction Workshop
- CRW 4320 Advanced Poetry Writing Workshop
- ENC 3211 Theory and Practice of Technical Writing
- ENC 3241 Writing for the Technical Professional
- ENC 3290 Professional Writing
- ENC 3310 Magazine Writing I
- ENC 3311 Advanced Expository Writing

Other Requirements
- A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENTREPRENEURSHIP: Business Minor
(Open to Business Students)
College of Business Administration
Management Department, BA1 309

Credit Hour Requirements 18 hrs

Required Courses (15 hrs)
- MAN 3301 Human Resource Management
- MAN 4802 Entrepreneurship
- MAR 3391 Professional Sales or MAR 3641 Marketing Intelligence
- GEB 4111 New Venture Finance
- GEB 4117 Business Plan Preparation

Restrictive Elective (3hrs)
- Any 3000 or 4000 MAN course or BUL 4540 not in COB Common Body of Knowledge

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) or “S” grades from other institutions are not accepted.
- At least nine hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- A maximum of 9 hours of required or elective coursework can count toward another major or minor degree program

ENVIRONMENTAL STUDIES: Minor
Office of Undergraduate Studies
Office of Liberal and Interdisciplinary Studies
http://liberalstudies.info
Minors

E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

The Environmental Studies minor is an interdisciplinary program that prepares students for a diverse set of academic endeavors and careers. It delivers the tradition of a liberal arts education with the rigor of the natural and social sciences, providing the introspection and artistic presentation of the humanities with the inquisitiveness that we share concerning our environment.

Credit Hour Requirements 21 hours

Required Course 18 hours must be taken at the upper division.

Science & Environmental Electives (9 hrs)

Natural Sciences
BSC 1050&L Biology and Environment + lab
BSC 2011C Biology II
BOT 3152C Local Flora
BOT 4156C Florida Wildflowers
BOT 3800 Ethnobotany
BOT 4303C Plant Kingdom
BOT 4666C Conservation and Management of Native Plants
BOT 5623C Plant Geography and Ecology
BOT 4713C Plant Taxonomy
BSC 4312C Marine Biology
PCB 3044&L Principles of Ecology and Lab
PCB 3442 Florida Aquatic Ecology
PCB 4302C Physiochemical Limnology
PCB 4303C Biological Limnology
PCB 4883 Population Biology and Evolution
PCB 5045C Conservation Biology
PCB 5326C Ecosystems of Florida
PCB 5435C Marine Ecology of Florida
PCB 5485 Models in Ecology
PCB 5328C Landscape Ecology
CHM 3120 Analytical Chemistry
CHS 4615 Environmental Chemistry
EPS 4500 Epidemiology

Environmental Engineering
ENV 3001 Introduction to Environmental Engineering
ENV 4341 Solid Waste Management

Social & Humanities Electives (9 hrs)

Environment & Society
ECP 3303 Economics and the Environment or
ECP 4302 Economics of the Environment
ECO 4701 The Global Economy
INR 4351 International Environmental Law
PUP 3203 Environmental Politics
PUP 4503 Government and Science
PAD 4351 Issues in Environmental Program Management
PAD 5336 Introduction to Urban Planning
PAD 5338 Land Use and Planning Law
PLA 4631 Land Use and Environmental Law
PUP 4204 Sustainability

Geography
GEO 2370 Resources Geography
GEO 3042C GIS for Environmental Studies
GEO 401C Advanced GIS Applications in Environmental Studies
GEO 4035C Remote Sensing of the Environment

Philosophy
PHI 3033 Philosophy, Religion, and the Environment
PHI 4430 Philosophy of Science
PHI 3640 Environmental Ethics
PHI 4633 Ethics and Biological Science
PHM 4031 Environmental Philosophy
PHM 5035 Environmental Philosophy

Sociology
SOP 3004 Social Psychology
SCE 4023 Teaching Science and Technology to Children
ANT 3112 Ethnology of North American Indians

Writing, Journalism Courses
JOU 4181 Public Affairs Reporting
PHY 3610C Photojournalism I
LIT 4433 Survey of Technical and Scientific Literature

Other Requirements
A grade of “C” or above (2.0) is required in each course used to satisfy the minor.

Required core courses: 6 hrs

LIT 4433 Literature of the Holocaust
LIT 4184 Irish Literature
GER 3370 German Short Story
GER 3370 German Short Story

Restrictions:

Credit hour requirements: 21 hrs

Students are responsible for meeting any prerequisites for the courses in the minor.

Required core courses: 6 hrs

EUH 3235 Romanticism and Realism
EUH 3242 Modern Europe and the First World War
EUH 3281 Second World War and Rebirth of Europe
EUH 3315 History of Modern Spain
EUH 3411 Ancient Rome
EUH 3431 History of Modern Italy
EUH 3451 History of Modern France
EUH 4284 Fascism and the Totalitarian Dictatorships
EUH 4400 The History of Ancient Greece
EUH 4465 Hitler's Third Reich
EUH 4501 English History: 1485-1815
EUH 4502 English History: 1815-Present
EUH 4576 History of Russia in the 20th Century
EUH 4582 20th Century Russian Diplomatic History
EUH 4610 Women in European Society
EUH 4620 European Great Powers: 1815-1914
GER 4610 Life and Culture in Nazi Germany
JST 3701 History of the Holocaust

International Study, independent study, and co-op credit cannot be used in this minor.

Political Science or Economics (3 hrs)

EUROPEAN STUDIES: Minor
College of Sciences
Department of Political Science, CNH 415
http://www.cas.ucf.edu/politicalscience
E-mail: politics@mail.ucf.edu
Contact: Kerstin Hamann, 407-823-2608;

An interdisciplinary minor that offers students a general background of the politics, history, literature, art, and culture of Europe with an emphasis on the post-World War II period. Courses are to be select-
ed in consultation with a departmental advisor or the director of European Studies.

Credit hour requirements: 21 hrs

Students are responsible for meeting any prerequisites for the courses in the minor.

Required core courses: 6 hrs

CPO 4101 Politics of the European Union
LIT 3082 Continental European Fiction

Restricted Electives: 12 hrs

Literature, Film, and Culture:

GER 3102 Germany - Past to Present
GER 4320 Modern Germany
GEW 3101 Survey of German Literature II
GEW 3370 German Short Story
GEW 3480 German Post-War Literature
GEW 4482 German Children's Literature
GEW 4531 The Age of Goethe and Schiller
ITT 4956 Study Abroad: Italian Civilization
ITW 3101 Survey of Italian Literature II
JST 3751 Literature of the Holocaust
LIT 4184 Irish Literature
MUL 3604 German Song Literature
MUL 3605 French Song Literature
SPW 3101 Survey of Spanish Literature II
SPW 3370 Spanish Short Story
SPW 4272 20th Century Spanish Novel
SPW 4322 Contemporary Iberian Theatre
SPW 4450 Spanish Literary Theory
SPW 4460 Nineteenth Century Spanish Literature
SPW 4720 The Generation of 1898

History (6 hrs)

EUH 3235 Romanticism and Realism
EUH 3242 Modern Europe and the First World War
EUH 3281 Second World War and Rebirth of Europe
EUH 3315 History of Modern Spain
EUH 3411 Ancient Rome
EUH 3431 History of Modern Italy
EUH 3451 History of Modern France
EUH 4284 Fascism and the Totalitarian Dictatorships
EUH 4400 The History of Ancient Greece
EUH 4465 Hitler's Third Reich
EUH 4501 English History: 1485-1815
EUH 4502 English History: 1815-Present
EUH 4576 History of Russia in the 20th Century
EUH 4582 20th Century Russian Diplomatic History
EUH 4610 Women in European Society
EUH 4620 European Great Powers: 1815-1914
GER 4610 Life and Culture in Nazi Germany
JST 3701 History of the Holocaust

Political Science or Economics (3 hrs)

Other Requirements
Liberal Studies advisors to be used toward the minor.

Internship, independent study, and co-op credit cannot be used in this minor.

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Required Courses (18 hrs)
Credit Hour Requirements 20-21 hrs
This minor is available for students in the 2001 catalog and beyond. The minor will strengthen the marketability of the student’s major program. This minor is intended for students seeking an enhanced understanding of education or are considering a career in the fields of education or exceptional education. This minor is not intended for students enrolled in the College of Liberal Arts and Sciences.

ED 315-N, 407-823-5477
E-mail: tcross@mail.ucf.edu

The Exceptional Education minor is intended to provide a limited, but substantive experience in the fields of education and exceptional children. The minor is not intended for students enrolled in the College of Education and does not lead to teacher certification nor admission to the College of Education. The minor is appropriate for students who are seeking an enhanced understanding of education or are considering a career in the fields of education or exceptional education. This minor will strengthen the marketability of the student’s major program.

EXCEPTIONAL EDUCATION: Minor
College of Education
Department of Child, Family, and Community Sciences
ED 209; http://www.education.ucf.edu
Program Coordinator: Dr. Lee Cross
ED 315-N, 407-823-5477
E-mail: tcross@mail.ucf.edu

The Exceptional Education minor is intended to provide a limited, but substantive experience in the fields of education and exceptional children. The minor is not intended for students enrolled in the College of Education and does not lead to teacher certification nor admission to the College of Education. The minor is appropriate for students who are seeking an enhanced understanding of education or are considering a career in the fields of education or exceptional education. This minor will strengthen the marketability of the student’s major program.

This minor is available for students in the 2001 catalog and beyond.

Credit Hour Requirements 20-21 hrs
Required Courses (18 hrs)
RED 3012 Basic Foundations of Reading 3 hrs
EEX 4003 Teaching Exceptional Students 3 hrs
EEX 4601 Introduction to Behavior Management 3 hrs
EEX 4753 Parent/Professional Collaboration 3 hrs
EDF 4503 Analysis of Critical Issues in Education 3 hrs
EEX 3243 Techniques for Exceptional Adolescents/Adults or
EEX 3241 Methods for Academic Skills for Excep. Students 3 hrs

Restricted Electives (2-3 hrs)
EEX 4054 Applications and Theories for Students with Special Needs or
EDF 4214 Classroom Learning Principles 3 hrs

Other Requirements
Completion of all parts of the General Knowledge test and/or CLAST with appropriate passing scores (no alternatives or waivers), or completion of an AA degree from a Florida public post secondary institution, including completion of CLAST with appropriate scores or alternatives.
A minimum GPA of 2.5 of all Gordon Rule classes including ENC 1101, 1102, and two college level math courses, MAC 1105 or higher, is required.
No Military credit may be used. Transfer credits from other universities will be considered.
Note: Completion of the minor does not complete the requirements for certification in Exceptional Education nor does it constitute admission in the College of Education.

FINANCE: Minor
(Open to Business and Non-Business Students)
Not available to Finance Majors
College of Business Administration
Department of Finance, BA 409
http://www.bus.ucf.edu/finance

Credit Hour Requirements 18 hrs
Prerequisite courses:
ACG 2021 Principles of Financial Accounting
ACG 2071 Principles of Managerial Accounting
ECO 2013 Principles of Macroeconomics
ECO 2023 Principles of Microeconomics

Required courses 9 hrs
FIN 2104 Personal Finance and Investments 3 hrs
FIN 3403 Business Finance 3 hrs
FIN 3303 Financial Markets 3 hrs

Electives (select three of the following) 9 hrs
FIN 3414 Intermediate Corporate Finance 3 hrs
FIN 3470 Financial Statement Analysis 3 hrs
FIN 3504 Investment Analysis 3 hrs
FIN 4313 Management of Financial Institutions 3 hrs
FIN 4324 Commercial Bank Management 3 hrs
FIN 4424 Advanced Topics in Financial Management 3 hrs
FIN 4453 Financial Models 3 hrs
FIN 4514 Portfolio Analysis and Management 3 hrs
FIN 4533 Financial Derivatives 3 hrs
FIN 4604 International Financial Management 3 hrs

Other Requirements
A student minoring in finance must earn a grade of “C” (2.0) or higher in each course applied toward the requirements for the minor. Students must have an overall GPA of 2.0 or higher in all courses attempted in the minor.
Grades below “C” (2.0) are not accepted.
At least 9 hours used in the minor must be earned at UCF within the department.
Minors

- No credit by exam (TSD, Military credit) may be used.
- Internship or independent study credit cannot be used toward the minor.
- A maximum of 6 hours of the above listed required or elective courses can count toward another major or minor degree program.

FITNESS TRAINING: Minor

College of Education
Department of Teaching and Learning Principles, ED 209
http://pegasus.cc.ucf.edu/~uctphed/minors.htm
Program Coordinator: Dr. Patricia Higginbotham
ED 320 H, 407-823-2050
Email: higginbp@mail.ucf.edu

The Fitness Training minor is developed to provide the student interested in working in wellness centers as personal trainers the knowledge and experience to be successful in this growing and exciting area. The goal is to provide guided practical skills application to those students who wish to teach fitness related concepts to individuals and/or groups.

With the knowledge acquired from the completion of the required coursework for the Fitness Training Minor, students will be prepared and eligible to receive certification from The American Council on Exercise. This Minor is available for students in the 2001 Catalog Year and beyond.

Credit Hour Requirements *19 hrs

Required Courses

*PEM 2171 Aerobics 2 hrs
*PET 2622C Human Injuries 3 hrs
PET 4312 Biomechanics 3 hrs
PET 4550 Fitness Assessment and Exercise 3 hrs
PET 4083C Practical Fitness Training 4 hrs

*ZOO 3736C Exercise Physiology Anatomy 4 hrs

* If the student has completed a Human Anatomy course with a laboratory requirement at another school, it can be substituted for ZOO3736C. This is also true for the Human Injuries course, PET2622C and the PEM 2171 Aerobics course. Both of these courses are often completed at a community college.

Note: ZOO 3736C should be taken prior to PEM 4312, PET 4550, and PET 4083C

Other Requirements

- No grades below “C-” (1.75) and no “S” grades will be accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

FRENCH: Minor

College of Arts and Humanities
Modern Languages and Literatures, CNH 523
http://www.cas.ucf.edu/forlang

Modernlanguage@ucf.edu

L.Timothy Worrell, 407-823-2472

Credit Hour Requirements 18 hrs

Restricted Electives

- Select six upper division courses in French, including the 3000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements

- A grade of “C” (2.0) or better is required in each course for the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by examination (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor without departmental approval.

HEALTH INFORMATION MANAGEMENT: Minor

College of Health and Public Affairs
Department of Health Professions, HPA2 210

Thomas J. Falen, 407-823-2369
Email: tfalen@mail.ucf.edu

Credit Hour Requirements 20 hrs

Required Courses (20 hrs)

HIM 3006 Foundations of Health Information Management 3 hrs
HIM 4506 Quality Management 3 hrs
HIM 4656C Health Information Management Systems 3 hrs
HSC 3531 Medical Terminology 3 hrs
HIM 4226C Coding Procedures I 5 hrs
HIM 4256C Coding Procedures II 3 hrs

Other Requirements

- A minimum overall GPA of 2.5 is required. A minimum grade of “C” (2.0) is required in each course for the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by examination (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor without departmental approval.

HEALTH SCIENCES: Minor

College of Health and Public Affairs
Department of Health Professions, HPA2 212

L.Timothy Worrell, 407-823-2214
E-mail: worrell@mail.ucf.edu

Credit Hour Requirements 18 hrs

Required Courses (9 hrs)

HSA 3111 U.S. Health Care Systems 3 hrs
HLN 2002 Modern Concepts of Nutrition 3 hrs
HSC 3101C Medical Self Assessment 3 hrs

Restricted Upper Division Electives (9 hrs)

9 additional hours of upper division courses in the Health Professions department.

Other Requirements

- Majors may not count courses presently required in a department.
- A minimum GPA of 2.5 is required in all coursework, and a minimum grade of “C” (2.0) is required in all Health Professions courses.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.
Minors

HEALTH SERVICES ADMINISTRATION: Minor
College of Health and Public Affairs
Department of Health Professions, HPA 210
Thomas Falen, 407-823-2269
Email: falen@email.ucf.edu

Credit Hour Requirements 18 hrs
Required Courses (15 hrs)
HSA 3111 U.S. Health Care Systems 3 hrs
HSA 4201 Community Health Services 3 hrs
HSA 4180 Org and Mgmt for Health Agencies 3 hrs
HSA 4191 Health Care Automation 3 hrs
HSC 4500 Epidemiology 3 hrs

Restricted Elective (3 hrs)
HSC 3640 Health Law or
HSC 4563 Health Care Ethics or
HSA 4195 Managed Care or
HSA 4902 Risk Management or HIM 4506 Quality Management
HSA 4702 Health Science Research Methods

(Additional prerequisite courses may be required)

Other Requirements
- A minimum GPA of 2.5 is required in all coursework, and a mini-
  mum grade of “C” (2.0) is required in all courses for the minor.
- Grades less than “C” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF with-
  in the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward
  the minor.

HISTORY: Minor
College of Arts and Humanities
Department of History, CNH 551
http://pegasus.cc.ucf.edu/~history

Credit Hour Requirements 18 hrs
Restricted Upper Division Electives (15 hrs)

History Elective (3 hrs)
Any course taught within the History Department

Other Requirements
- A grade of ÔC-Ô (1.75) or better is required in all courses used to
  satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF within
  the department.
- No credit by exam (TSD, Military credit) may be used without
  academic advisorÔs approval.
- Internship, Co-op, or Independent Study credit cannot be used toward
  the minor without departmental approval.

HOSPITALITY MANAGEMENT: Minor
Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, FL 32819
407-903-8000
http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam

Credit Hour Requirements 18 hours
Required Courses (6 hrs)
HFT 1000 Introduction to Hospitality Mgmt 3 hrs
HFT 3540 Guest Services Management I 3 hrs

Choose any two courses from the following: (6 hrs)
HFT 2403 Hospitality Financial Accounting 3 hrs
HFT 3431 Hospitality Managerial Accounting 3 hrs
HFT 2500 Hospitality Marketing 3 hrs
HFT 2220 Hospitality Human Resource Mgmt 3 hrs
HFT 3444 Hospitality Information Systems 3 hrs
HFT 3600 Legal Environment in Hospitality 3 hrs
HFT 4462 Hospitality Industry Finance 3 hrs
HFT 4286 Hospitality Communications 3 hrs

Choose any two courses from the following: (6 hrs)
HFT 3700 Tourism Management 3 hrs
HFT 3261 Restaurant Management 3 hrs
HFT 3273 Principles of Resort Time Sharing 3 hrs
HFT 4755 Theme Park & Attraction Mgmt 3 hrs
HFT 2750 The Event Industry 3 hrs
FSS 2212C Quantity Food Preparation 3 hrs
HFT 2254 Lodging Operations 3 hrs

Other Requirements
- A “C” (2.0) grade or better is required in all courses used to sat-
  isfy the minor.
- At least 15 hours used in the minor must be earned at UCF within
  the department.
- No credit by exam (TSD, Military credit) may be used.

HUMANITIES: Minor
College of Arts and Humanities
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy
philosophy@ucf.edu
Bruce Janz, 407-823-2273

A multicultural minor focusing on the art, literature, philosophy, and
religion of various world cultures. This minor is intended to provide a
limited, yet substantive, introduction to humanities themes related to
knowledge, responsibility, and society. Students interested in the
Liberal Arts major may find this minor particularly helpful. In consulta-
tion with a departmental advisor, student will select courses in accor-
dance with the distributions listed below.

Credit Hour Requirements 21 hrs
Humanities Foundations 6 hours
Select two courses:
HUM 3431 Ancient Humanities
HUM 3435 Medieval Humanities
HUM 3255 Modern Humanities
HUM 3252 Contemporary Humanities

Humanistic/Religious Traditions 6 hours
Select two courses:
HUM 3401 Asian Humanities
HUM 3417 Hindu Thought and Culture
HUM 3419 Islamic Thought and Culture
HUM 3552 Christian Thought
HUM 3553 Moses, Jesus and Muhammad
ANT 3245 Native American Religions
JST 3401 The Jewish People I

Applications 6 hours
Select two courses:
PHI 3053 Philosophy and Creativity
PHI 3033 Philosophy, Religion, and the Environment
PHM 3123 Feminist Theories
REL 3162 Healing: Culture, Art, and Praxis
REL 3115 Religion, Spirituality, and Popular Music
HUM 4554 Religious Quest and the Human Dilemma
HUM 4530 Performance Theory
PHI 3022 Sexuality, Gender & Philosophy
PHI 3638 Ethical Issues in the 21st Century
PHI 4321 Philosophies of Embodiment: Mind/Body/Self

Upper Division Restricted Elective 3 hours
Select one additional course from the above list or from the following:
HUM 3320 Contemporary Multicultural Studies
HUM 4301 Classical Ideal
HUM 4303 Spiritual Ideal
PHI 4804 Critical Theory
PHI 3802 Aesthetics
PHI 3700 Philosophy of Religion
CLA 3850 Classical Mythology
CLA 3851 Comparative Mythology

Other Requirements
- A “C” (2.0) grade or better is required in all courses used to satis-
  fy the minor.
- At least 15 hours used in the minor must be earned at UCF within
  the department.
- No credit by exam (TSD, Military credit) may be used.
Minors

- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

**INFORMATION TECHNOLOGY: Minor**

**College of Engineering and Computer Science**

School of Electrical Engineering & Computer Science
Harris Corp Engineering Ctr, Rm 245
E-mail: computscience@ucf.edu
http://www.cs.ucf.edu

Mark Llewellyn, 407-823-2341

**Credit Hour Requirements**

18-19 hours

**Required Courses** (3-7 hrs)

Select one of the following:

Option 1: (Not open to Computer Science Minors or Liberal Studies Majors):
- CGS 1060C or CGS 2100CC (3 hrs)
- COP 2500C Concepts in Computer Science (4 hrs)

Option 2: (Not open to Computer Science Minors or Liberal Studies Majors):
- COP 3223 Intro to Programming with C (3 hrs)
- COP 3502C Computer Science I (3 hrs)

Option 3: (Computer Science Minors and Liberal Studies Majors Only):
- CGS 1060C or CGS 2100CC (3 hrs)

**Restricted Electives** (9 hrs)

Select from the following:

- CGS 3346C Unix Operating Systems (3 hrs)
- CGS 3545C Database Concepts (3 hrs)
- CGS 2585C Desktop/Internet Publishing (3 hrs)
- CGS 3175 Internet Applications (3 hrs)
- CGS 3269 Computer Architecture Concepts (3 hrs)
- CGS 3268 Computer Networks Concepts (3 hrs)
- CGS 3763 Operating Systems Concepts (3 hrs)

**College Electives** (3-6 hrs)

- Options 1 and 2 (3 hrs)
- Options 3 (6 hrs)

Any upper division course offered within Computer Science at UCF or additional courses chosen from the restricted electives (exclusive of independent studies, internships, and those courses listed under Required Courses). See other requirements.

**Other Requirements**

- Not open to Information Technology majors.
- A minimum grade of “C” (2.0) or better is required in each course used to satisfy the minor.
- At least 9 hours used in the minor must be earned within the Computer Science program at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit cannot be used toward the minor.
- The courses used to satisfy the college electives for this minor cannot also be used to satisfy the requirements for a Computer Science Minor.

**INTERNATIONAL AND GLOBAL STUDIES: MINOR**

**College of Sciences**

Department of Political Science, CNN 415
http://www.cs.ucf.edu/politicalscience

Contact: Waltraud Morales, 407-823-2608

Students taking the International and Global Studies Minor will examine the interactions between nations and the political processes within nations using a variety of perspectives. International aspects focus on how countries interact with one another, and how the social and cultural systems within them affect these interactions. Global studies looks at intra-national factors, such as how a state’s internal characteristics impact that state’s political processes. Immigration, technological advancements and internationalization of foreign policy make global studies a complementary approach to international studies.

**Credit Hour Requirements**

21-32 hrs

**Note:** It is the student’s responsibility to satisfy course prerequisites.

**Core Courses** (6 hrs)

- IDS 4315 Global Perspectives
- GEO 3471 World Political Geography

**Restricted Political Science Electives** (Select one) (3 hrs)

- INR 4090 Diplomacy
- INR 4076 Global Drug Policy

INR 4075 Human Rights Policy
INR 4714 International Trade Policy
INR 4035 Politics of International Political Eco
INR 4603 International Political Theory
INR 4350 Global Environmental Politics
INR 4502 International Organizations

**Restricted Area Studies Electives** (6 hrs)

Two upper division courses from one of the following area studies programs. Courses may not have a prefix of INR, CPO, POT, POS or PUP.

- Asian Studies, European Studies, Latin American, Caribbean and Latino Studies, Middle Eastern Studies

**Elective** (3 hrs)

Substitutions require prior approval by the program advisor.

**Language Requirement** (3-14 hrs)

- 3-credit Foreign Language across the Curriculum (FLAC) courses

**Foreign Language Requirement**

Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

**INTERNATIONAL BUSINESS:**

Minor for Business Majors

**College of Business Administration**

Office of Student Support, BA 240
Richard Ajayi, 407-823-5908

**Credit Hour Requirements**

18 hrs

**Required Courses** (12 hrs)

- ECS 3228 Economics of Developing Areas
- ECO 3703 International Trade or
- ECO 4XXX International Macroeconomics
- FIN 4604 International Financial Management
- MAN 4600 International Management or
- MAR 4156 International Marketing

**Electives** (6 hrs)

- ECO 3703 International Trade
- ECO 4XXX International Macroeconomics
- ECS 4013 Economics of Developing Areas
- GEO 3471 World Political Geography
- INR 4035 International Political Economy
- INR 4224 Contemporary International Politics of Asia
- INR 4243 International Politics of Latin America
- INR 4401 International Law I
- MAR 4724 Strategic Foundations in Global e-Business

**Special Topics Seminars in International Business;**

3000/4000 level foreign language course language.

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the College of Business Administration.
In order to be eligible for the minor, students must meet the following requirements:

1. A minimum average GPA of 2.0 is required in courses used to satisfy the minor.
2. Grades below “C” (2.0) in lower level courses are not accepted.
3. At least 15 hours used in the minor must be earned at UCF within the School of Communication.
4. No credit by exam (TSD, Military credit) may be used.
5. Internship, Co-op, or Independent Study credit cannot be used toward the minor with prior approval.

INTELLIGENT ROBOTIC SYSTEMS (IRS): INTERDISCIPLINARY Minor
College of Engineering and Computer Science
CECS Academic Affairs, ENGR 107
Paul Edlen, 407-823-2455, paule@mail.ucf.edu
http://www.cecs.ucf.edu

Credit Hour Requirements: 21 hrs
Required Courses (6 hrs)
- EML 5290 Intro to MEMS & Micromachining 3 hrs
- EML 3804 Digital Control in Mechatronics 3 hrs
- EML 3805 Applied Control Systems 3 hrs
- EML 5290 Intro to MEMS & Micromachining 3 hrs

Elective Courses (15 hrs)
Select three elective courses from the following courses:
- CAP 5610 Machine Learning 3 hrs
- EEL 3657 Linear Control Systems 3 hrs
- EEL 4750 Digital Signal Processing Fundamentals 3 hrs
- EEL 4612 Intro to Modern and Robust Ctrl 3 hrs
- EEL 4512 Digital Signal Processing 3 hrs
- EEL 4820 Image Processing 3 hrs
- EEL 5630 Digital Control Systems 3 hrs
- EEL 5830 Pattern Recognition 3 hrs
- EEL 5311 System Control 3 hrs
- EML 5311 System Control 3 hrs
- EML 5311 System Control 3 hrs
- EML 5311 System Control 3 hrs
- EML 5311 System Control 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all the courses used to satisfy the minor.
- Students whose major requires senior design courses are encouraged to take the multidisciplinary senior design course (EGN 4412 and EGN 4413) and to undertake a project in intelligent robotic systems. If done, a certificate will be issued with the minor.
- A high-level programming language class (EGN 3210 or COP 3223 or equivalent) is required for the minor.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ITALIAN: Minor
College of Arts and Humanities
Modern Languages and Literatures, CNH 523
http://www.cas.ucf.edu/forlang/
Italianlanguage@ucf.edu

Credit Hour Requirements: 18 hrs
Restricted Electives
Select 6 upper division courses in Italian, including the 3000-level advanced oral communication and composition courses.

Other Requirements
- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.
LATIN AMERICA AREA STUDIES: Minor
College of Arts and Humanities

VAB 203
(407) 823-1173 or 1174
Dr. Luis Martinez-Fernandez, Program Director
martfem@mail.ucf.edu

The minor provides students with an interdisciplinary knowledge of, and the necessary tools to understand, Latin America, its people and its culture. Students completing the minor shall be prepared to apply their knowledge about Latin America in a variety of careers including, but not limited to: education, government, journalism, foreign service, social and community service, international trade and public relations.

Credit Hour Requirements 18 hrs
Admission Requirement
Admission by interview with the Program Director.

Required Skills
Successful completion of SPN 1120 and SPN 1121 or demonstration of proficiency.

Restricted Electives (18 hrs)
At least 6 hours must be from one disciplinary group, and at least 3 hours from two additional groups. The other 12 must be selected from any of the disciplinary groups. Additional courses not listed below may substitute with prior approval from the Program Director.

Anthropology:
ANT 3164 Ancient Incas
ANT 3168 Maya Archaeology
ANT 33230 People and Cultures of Latin America
ANT 4340 Caribbean Cultures
ANT 4308A0 Gender Issues in Latin America
ANT 3168 Maya Archeology

Art History:
ARH 4655 Meso American Art
ARH 3673 Modern Art of Mexico
ARH 3670 20th Century Latin American Art

Modern Languages and Literature:
SPN 2200 Intermediate Modern Spanish Language and Civilization
FRW 3770 Francophone Literature
SPW 3130 Survey of Latin American Literature I
SPW 3131 Survey of Latin American Literature II
LIT 3192 Caribbean Literature
FRW 3752 French Caribbean Literature
SPW 4382 Literature of Central America
AML 3615 Harlem, Haiti, and Havana
AML 4630 Latino/Latina Literature
SPN 3852 Bilingualism
SPW 4790 Hispanic Literature of the United States
SPN 4780 Spanish Phonetics

History:
LAH 3130A0 Latin American History I
LAH 3200 Latin American History II
LAH 3408A0 History of Mexico and Central America
LAH 3470 History of the Caribbean
AMH 3586 History of the Hispanic minorities in the US

Latin American Studies:
LAS 4906 Independent Study in Latin American, Caribbean and Latin Studies
LAS 4023 African Caribbean Experience
MANAGEMENT INFORMATION SYSTEMS: Minor
(For both Business and Non-Business Majors)
College of Business Administration
Department of MIS, BA 325
407-823-3173

Credit Hour Requirements: 19 hrs

Prerequisite courses: CGS 2100CC or CGS 1060C or MSC 1105 or MGF 1106

Required Courses: 3011 Management Information Systems 3 hrs
ISM 3253 MIS Techniques 4 hrs
ISM 4212C Database Management 3 hrs

Electives (choose three): 9 hrs
ISM 4113 Information Systems Analysis and Design
ISM 4130 Information Systems Implementation
ISM 4220 Distributed Information Systems
ISM 4300 Technology Management
ISM 4480 Electronic Commerce Systems
ISM 4932 Special Topic Course
ISM 5215 Information Systems Project Management
ISM 5219 Business Intelligence Systems

Other Requirements:
A grade of "C" (2.0) is required in each course for the minor.
A grade of "C" or above (2.0) is required in each course for the minor.

Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

MATHEMATICS: Minor
College of Sciences
Department of Mathematics, MAP 207
http://math.ucf.edu
E-mail: math@mail.ucf.edu

Credit Hour Requirements: 21 hrs

Required Courses: (15 hrs)
MAC 2311 Calculus with Analytic Geo I 4 hrs
MAC 2312 Calculus with Analytic Geo II 4 hrs
MAC 2313 Calculus with Analytic Geo III 4 hrs
MAP 2302 Differential Equations 3 hrs

(MAC 2311 and MAC 2312 may be waived by the Department Standards Committee for a student with adequate high school preparation in calculus. The student would increase Restricted Electives' hours accordingly to earn the hours required in the minor)

Restricted Electives: (6 hrs)
The Restricted Electives must be taken from the Department of Mathematics at UCF and must include one course at the 4000-5000 level.
MAA XXXX (any 3000, 4000, or 5000 level course)
MAD XXXX (any 3000, 4000, or 5000 level course, except MAA 3401)
MAS XXXX (any 3000, 4000, or 5000 level course)
MTG XXXX (any 3000, 4000, or 5000 level course)

Any mathematics Honors courses that are approved for this purpose by the Department Standards Committee.

(Either MAS 3105 or MAS 3106 may be used but not both. Courses may be selected from MAA 4226 and MAA 4227, or MAA 5210 but not both.)

Other Requirements:
A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
At least 6 hours used in the minor must be earned at UCF within the department.
No credit by exam (TSD, Military credit) may be used.
Internship, Co-op, or Independent Study credit cannot be used toward the minor.

MIDDLE EASTERN STUDIES: Minor
College of Arts and Humanities
Middle Eastern Studies Program, CNH 411J
Husain Kassim, 407-823-2803

The Middle Eastern Studies minor is designed to complement a student's major area of study. The minor requires a core of Middle Eastern Studies courses as well as a selection of directed electives.

Credit Hour Requirements: 21 hrs

Required Courses: (9 hrs)
CPO 3403 Politics of the Middle East 3 hrs
HUM 3419 Islamic Thought and Culture 3 hrs
ASH 3223 The Modern Middle East 3 hrs

Restricted Electives: (12 hrs)
ARA 2200 Intermediate Arabic Language and Civilization I
ASH 3222 Islam and Its Empires
ASH 5227 The Arab-Israeli Conflict
CPO 4710 Women in Comparative Politics
HBR 2200 Intermediate Modern Hebrew I
HUM 3553 Moses, Jesus and Muhammad
JST 3401 The Jewish People I
JST 3402 The Jewish People II
JST 3820 Modern Hebrew Culture
PHH 3200 Medieval Philosophy
REL 2300 World Religions

Additional courses may be used only with prior permission of the program director. Although not required, students are strongly encouraged to complete at least one year of Arabic (ARA 1120, 1121) and/or Hebrew (HBR 1120, 1121).

Other Requirements:
Students who are also minoring or completing a certificate in Judaic Studies may not have more than 3 credits that are counted in both programs.
At least 15 hours used to satisfy this minor must be at the upper division.
A grade of “C” or above (2.0) is required in each course for the minor.
Minors

- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

MILITARY SCIENCE: Minor
College of Engineering and Computer Science
Army ROTC, BLDG 501
LTC Allison R. Reinwald, 407-823-2430

Credit Hour Requirements (19 hrs)

Required Courses
- MSL 3201C Leadership and Problem Solving 4 hrs
- MSL 3202C Leadership and Ethics 4 hrs
- MSL 4301C Leadership and Management 4 hrs
- MSL 4302C Officership 4 hrs

Select one of the following: (3 hrs)
- AMH 3541 U.S. Military History to 1900
- AMH 3547 U.S. Military History since 1900

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

MOLECULAR BIOLOGY AND MICROBIOLOGY: Minor
Burnett College of Biomedical Sciences
Department of Molecular Biology and Microbiology,
HPA 335, 407-823-5932
Chair: P.E. Kolattukudy

Credit Hour Requirements (30 hrs)

Required Courses
- BSC 2001C Biology I 4 hrs
- MCB 3020C General Microbiology 5 hrs
- PCB 3233 Immunology or 4 hrs
- PCB 4239 Molecular Immunology 3 hrs
- PCB 3233L Immunology Laboratory 1 hr
- PCB 3522 Molecular Biology I 3 hrs
- PCB 4524 Molecular Biology II 3 hrs
- BSC 3403C Quantitative Biological Methods 4 hrs

Restricted Electives (7 hrs)
- At least two courses from the Restricted Elective category of the baccalaureate curriculum.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

MUSIC: Minor
College of Arts and Humanities
Department of Music, CNH 205
http://www.cas.ucf.edu/music/moore
music@ucf.edu
TBA, 407-823-2869

Credit Hour Requirements (18 hrs)

Required Courses
- MUT 1111 Music Theory IA 2 hrs
- MUT 1112 Music Theory IB 2 hrs
- MUT 1241 Ear Training and Sight Singing IA 1 hr
- MUT 1242 Ear Training and Sight Singing IB 1 hr
- MUL 2010 Enjoyment of Music 3 hrs

Restricted Electives (9 hrs)
- Restricted electives must be taken from the Department of Music at UCF and must include 3 hours minimum at the 3000 or 4000 level. Secondary lessons can be used for electives contingent on a successful audition and approval of the department chair.
- MUC, MUN, MUE, MVx, MUH, MUL, MUS, MUT (any course) 6 hrs
- (on the same performance medium)
- MUC, MUN, MUE, MVx, MUH, MUL, MUS, MUT 3 hrs
- (3000 or 4000 level course)

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

NORTH AMERICAN INDIAN STUDIES: Minor
College of Sciences
Department of Anthropology, PH 403
http://www.cas.ucf.edu/soc_anthro
E-mail: anthropology@ucf.edu
Contact: Rosalyn Howard, 407-823-2227

The North American Indian Studies minor will develop a more sophisticated understanding and appreciation of the history and culture of the North American Indians. The minor is especially appropriate for all UCF undergraduates.

Minor Requirements:
- Interview with the North American Indian Studies Director.
- Consultation with the Director to develop a program of study and plan course selections.
- Final approval of the minor is contingent upon completion of a thesis paper under the guidance of a faculty research director.

Credit Hour Requirements (18 hrs)

Required Courses
- ANT 4910 Research 3 hrs

Restricted Electives (15 hrs)

Courses used in the minor must be taken in at least two departments. Select from the following list.
- ANT 3245 Religions of the Amer Indians
- ANT 3313 Indians of the N Amer High Plains
- ANT 3311 Indians of the SE United States
- ANT 3198 Florida Archaeology
- ANT 4006 Independent Study
- ANT 3314 Indians of the NE Woodlands
- ANT 3312 Ethnology of N Amer Indians
- ANT 3316 Black/Seminole Relations
- ANT 43320 Indians of the Southwest
- ANT 3318 Indians of the Northwest Coast
- AMH 3441 History of the Frontier: E America
- AMH 4110 Colonial America
- AMH 4112 The Atlantic World
- AMH 3640 Native American Literature
- ANT 4144 Prehistory of North America
- ANT 4153 North American Archaeology
- PHH 3701 North American Philosophy
- SYD 3752 Modern Law in Indian Country
- SYD 3751 N Amer Indian Women Today

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.

ORGANIZATIONAL COMMUNICATION: Minor
College of Sciences
Nicholson School of Communication, COM 258
407-823-2852
http://www.cas.ucf.edu/communication
E-mail: communication@ucf.edu
Contact: Susan Jefferson

Not open to Interpersonal/Organizational Communication majors.

Credit Hour Requirements (21 hrs)

Required Courses
- COM 3310 Organizational Communication 3 hrs
- COM 3311 Communication Research Methods 3 hrs
Minors

Restricted Upper Division Electives (15 hrs)
COM 3011 Communication and Human Relations
COM 3110 Business and Professional Communication
SPC 4426 Group Dynamics
COM 4461 Intercultural Communication
COM 4462 Conflict Management

Independent study or Special Topics course if approved by the coordinator prior to enrolling in the class

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the School of Communication.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit may be used toward the minor with prior approval.

PHILOSOPHY: Minor

College of Arts and Humanities
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy
philosophy@ucf.edu
Jennifer Mundale, 407-823-2273

The Philosophy minor is intended to provide a limited, yet substantive, introduction to philosophical themes related to knowledge, responsibility, and society. Students, in consultation with a departmental advisor, will select courses in accordance with the distributions listed below.

Credit Hour Requirements 21 hours

Core Requirements (15 hrs)
Select one course from each of the following groups:

Reasoning (3 hours)
PHI 2011 Philosophical Reasoning
PHI 2101 Critical Thinking
PHI 2108 Formal Logic I
PHI 2647 Logic and Ethics
PHI 3131 Formal Logic II

History of Philosophy (3 hours)
PHH 3100 Ancient Philosophy
PHH 3200 Medieval Philosophy
PHH 3460 Modern Western Philosophy
PHH 3600 Contemporary Philosophy

Values and Society (3 hours)
PHI 3670 Ethical Theory
PHI 3626 Advanced Ethics in Science and Technology
PHI 3401 Philosophy of Law
PHI 3800 Aesthetics
PHM 3123 Feminist Theories

Philosophy (3 hrs)
Select at least one course:

A. Contemporary Media
PHI 4893 Philosophy in the News
PHI 3883 Philosophy of Friendship

B. Religion
PHI 4801 Philosophy of Religion
PHI 4400 Philosophy of Science
PHI 3320 Philosophy of Mind
PHI 4351 Philosophy of Psychology
PHI 4420 Philosophy of Social Science
PHI 3323 Minds and Machines
PHP 4782 Phenomenology
PHI 4221 Philosophy of Language

Popular Culture Studies (9 hrs)
A. Contemporary Media
Select at least one course:

HUM 3320 Contemporary Multicultural Studies
HUM 4556 Religion and the Arts
HUM 4330 Performance Theory
PHI 3626 Virtual Ethics
PHI 4931 Philosophy in the News
POS 3235 Mass Media and Politics
POS 3268 Politics in Film
REL 3115 Religion, Spirituality and Popular Music

PHI 4300 Theories of Knowledge

Other Requirements
- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior approval by the Chair.
- Any substitutions must be approved by the department prior to being taken.

Upper Division Restricted Electives (6 hours)
Must consult an advisor for approved courses in this area.

Note: Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by departmental advisor.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the School of Communication.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit may be used toward the minor with prior approval.

PHILOSOPHY, RELIGION AND POPULAR CULTURE: Minor

College of Arts and Humanities
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy
philosophy@ucf.edu
Advisor (UCFOrlando Campus) Bruce Janz, 407-823-2273
Fax: 407-823-6658;
Advisor (Cocoa Campus) Shelley Park, 321-433-7919

The Philosophy, Religion, and Popular Culture minor examines popular culture through the critical lenses of philosophy and religious studies. Students interested in the Liberal Studies major may find this minor particularly helpful. In consultation with a departmental advisor, students will select courses in accordance with the distributions listed below.

Credit hour requirements 21 hours

Theoretical Foundations (6 hrs)
PHI 3684 Ways of Living
PHI 4341 Ways of Knowing

Philosophy (3 hrs)
Select at least one course:

PHI 2101 Critical Thinking
PHI 3670 Ethical Theory
PHI 3700 Philosophy of Religion
PHI 3800 Aesthetics
PHM 3100 Freedom and Justice
PHI 3720 Faith and Reason
PHP 3786 Existentialism
PHI 4804 Critical Theory
PHI 4300 Theories of Knowledge

Religion (3 hrs)
Select at least one course:

CLA 3851 Comparative Mythology
HUM 3552 Christian Thought
HUM 3553 Moses, Jesus, and Mohammed
HUM 3417 Hindu Thought and Culture
HUM 3419 Islamic Thought and Culture
HUM 4303 The Spiritual Ideal
HUM 4554 Religious Quest and Human Dilemma
PHI 3750 The Problem of Evil

Popular Culture Studies (9 hrs)
A. Contemporary Media
Select at least one course:

HUM 3320 Contemporary Multicultural Studies
HUM 4556 Religion and the Arts
HUM 4330 Performance Theory
PHI 3626 Virtual Ethics
PHI 4931 Philosophy in the News
POS 3235 Mass Media and Politics
POS 3268 Politics in Film
REL 3115 Religion, Spirituality and Popular Music
Minors

REL 3111 Religion and Philosophy through Film
SYP 3630 Sociology of Popular Culture

B. Contemporary Forms of Life
Select at least one course
ANT 3302 Sex, Gender and Culture
HUM 3252 Contemporary Humanities
PHI 3022 Sex, Gender and Philosophy
PHI 3629 Family Values
PHI 3033 Philosophy, Religion and me Environment
PHM 3401 Philosophy of Law
PHI 3638 Ethical Issues in the 21st Century
PHI 3683 Philosophy of Friendship
PHM 3123 Feminist Theories
PHI 4321 Philosophies of Embodiment: Mind/Body/Self
REL 3131 Religion In America
REL 3162 Healing Culture, Art, and Praxis

Other Requirements
- A “C” (2.0) grade or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

PHYSICS: Minor
College of Sciences
Department of Physics, MAP 310
http://www.physics.ucf.edu
physics@ucf.edu
Ralph Llewellyn, 407-823-2325

Credit Hour Requirements 20 hrs
Required Courses (13 hrs)
PHY 2048 Physics for Eng and Sci I 3 hrs
PHY 2048L Physics Laboratory for Eng and Sci I 1 hr
PHY 2049 Physics for Eng and Sci II 3 hrs
PHY 2049L Physics Laboratory for Eng and Sci II 1 hr
PHY 3101 Physics for Eng and Sci III 3 hrs

Restricted Upper Division Electives (9 hrs)
Selected from upper-level Physics lecture or laboratory courses appropriate for majors

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.

POLITICAL SCIENCE: Minor
College of Sciences
Department of Political Science, CNH 415
http://www.cas.ucf.edu/politicalscience
E-mail: politics@ucf.edu
Contact: Roger Handberg, 407-823-2608

Credit Hour Requirements 18 hrs
Required Course
POS 2041 American National Government 3 hrs

Restricted Upper Division Electives (15 hrs)
- Five upper division Political Science courses (selected with the aid of a departmental advisor)
- Only three hours of POS 4941 (Internship) may be used.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.

POLITICAL SCIENCE/PRELAW: Minor
College of Sciences
Department of Political Science, CNH 415
http://www.cas.ucf.edu/politicalscience
politics@ucf.edu
Roger Handberg, 407-823-2608
Contact: Roger Handberg, 407-823-2608

Credit Hour Requirements 18 hrs
Required Courses
POS 2041 American National Government 3 hrs
POS 4284 Judicial Process and Politics 3 hrs

Restricted Elective (3 hrs)
INR 4401 International Law I
INR 4402 International Law II
POS 4603 American Constitutional Law
POS 4604 American Constitutional Law II

Restricted Upper Division Electives (9 hrs)
- Three Upper Division Political Science Courses (selected with the aid of a departmental advisor)
- Only three hours of POS 4941 (Internship) may be counted

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior departmental permission.

PSYCHOLOGY: Minor
College of Sciences
Psychology Department, PH 302
http://www.psych.ucf.edu/
E-mail: psychology@ucf.edu
Contact: Psychology Advising Center, PH 305G, 407-823-2219

The Psychology Department minor permits emphasis of several areas: Clinical Psychology, Human Factors Psychology, and Industrial/Organizational Psychology. When designing a minor, select courses which strengthen graduate school preparation and/or employment potential. Emphasis areas will not appear on the transcript.

Credit Hour Requirements 22 hrs
Required Courses (10 hrs)
PSY 2012 General Psychology 3 hrs
STA 2014C Principles of Statistics 3 hrs
STA 2023 Statistical Methods I 3 hrs
PSY 3123C Research Methods in Psychology 4 hrs

Restricted Electives (12 hrs of Psychology courses)

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Maintain a minimum GPA of “C” (2.0) in the minor.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

PUBLIC ADMINISTRATION: Minor
College of Health and Public Affairs
Department of Public Administration, HPA2 238
Mr. Robert Morin, 407-823-2604
E-mail: morin@mail.ucf.edu

Credit Hour Requirements 18 hrs
Required Courses (18 hrs)
PAD 3003 Public Admin in American Society 3 hrs
PAD 4034 The Administration of Public Policy 3 hrs
PAD 4104 Administrative Theory 3 hrs
PAD 4204 Fiscal Management 3 hrs
PAD 4414 Public Personnel Administration 3 hrs
PAD 4720 Survey Research in Public Admin 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Students must earn at least a 2.0 (“C”) to earn credit.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor without prior approval.
REAL ESTATE: Minor
(Open to Business and Non-Business Students)
College of Business Administration
Department of Finance, BA 409
http://www.bus.ucf.edu/finance

Credit Hour Requirements 18 hrs
Prerequisite Courses
ACG 2021 Principles of Financial Accounting
ACG 2071 Principles of Managerial Accounting
ECO 2013 Principles of Macroeconomics
ECO 2023 Principles of Microeconomics

Required Courses (12 hrs)
FIN 2104 Personal Finance and Investments 3 hrs
FIN 3403 Business Finance 3 hrs
REE 3043 Fundamentals of Real Estate 3 hrs
REE 3433 Real Estate Law 3 hrs

Electives (6 hrs)
REE 4103 Real Estate Appraisal and Valuation 3 hrs
REE 4204 Residential Real Estate Finance 3 hrs
REE 4303 Real Estate Investment Analysis 3 hrs
REE 4702 Real Estate Development 3 hrs
REE 4xxx Commercial Real Estate Finance 3 hrs

Other Requirements
- A student minoring in real estate must earn a grade of "C" (2.0) or higher in each course applied toward the requirements for the minor. Students must have an overall GPA of 2.0 or higher in all courses attempted in the minor.
- Grades below "C" (2.0) are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or independent study credit cannot be used toward the minor.
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Students must earn a grade "C" or above (2.0) in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

SECURE COMPUTING AND NETWORKS (SCAN): Interdisciplinary Minor
College of Engineering and Computer Science
CECS Academic Affairs, ENGR 107
Kim Small, 407-823-2455; ksmall@mail.ucf.edu
http://www.cecs.ucf.edu

Credit Hour Requirements 18 hrs
Required Courses (9 hrs)
CIS 3360 Security in Computing 3 hrs
CIS 3362 Cryptography and Information Security 3 hrs

Select one:
CDA 4506 Network Labs 3 hrs
CDA 4527 Computer Communications Network 3 hrs
CET 4483 Local Area Networks 3 hrs
EEL 4781 Computer Networks 3 hrs

Elective Courses (9 hrs)
Select any three courses from the following list:
- Network Security:
  CET 4663 Computer and Network Security, or 3 hrs
  CIS 4363 Network Security and Privacy 3 hrs
  CDA 4527 Computer Communications Network 3 hrs
- Security Management and Administration:
  CET 4884 Security Methods & Practices 3 hrs
  CDA 4527 Computer Communications Network 3 hrs
  CET 4885 Investigative Digital Technology 3 hrs
- Secure Software:
  CIS 4361 Secure Operating Systems and Administration 3 hrs
  CIS 4615 Secure Software Development and Assurance 3 hrs
  COP 4600 Operating Systems 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all the courses used to satisfy the minor.
- Pre-requisites to the minor include Programming in C (COP 3223, EGN 3211, CET 2364, or an equivalent) and Math for Calculus (MAC 2147), or equivalent
- No credit by exam (TSD, Military credit) may be used
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

SOCIAL SCIENCES - INTERDISCIPLINARY: Minor
Office of Undergraduate Studies
Office of Liberal & Interdisciplinary Studies
http://liberalstudies.info
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

Credit Hour Requirements 21-22 hrs
Required Courses (3-4 hrs)
One method course, selected from the three immediately below
POS 3703 Scope and Methods of Political Science 3 hrs
PSY 3213C Research Methods in Psychology 3 hrs
SYA 4300 Research Methods 3 hrs

Restricted Electives (18 hrs)
Select a minimum of six hours in each of three different disciplines below. The courses below cannot overlap with your major discipline.
- Communication
  Economics
  Political Science
  Public Administration
- Psychology
  Sociology & Anthropology

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF.
- At least 18 hours must be upper division classes
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
Minors

SOCIOMETRY: Minor
College of Sciences
Department of Sociology & Anthropology, PH 403
http://www.cas.ucf.edu/soc_anthrophysics
sociology@ucf.edu
Contact: Jay Corzine, 407-823-2227

Credit Hour Requirements 18 hrs
Required Courses (3 hrs)
SYG 2000 General Sociology

Restricted Electives
3000-4000 level Sociology courses

Other Requirements
Earn a minimum GPA of at least 2.0 in all courses used to satisfy the minor.
Grades below “C” (2.0) in lower level courses are not accepted.
At least 15 hours used in the minor must be earned at UCF within the department.
No credit by exam (TSD, Military credit) may be used.
Co-op or internship credit cannot be used toward the minor.
No more than 3 hours of Independent Study credit can be used toward the minor.

SPACE STUDIES: Minor
College of Engineering and Computer Science
Department of Mechanical, Materials and Aerospace Engineering, ENGR 307
R.H. Chen, 407-823-2416
Fax 407-823-0208

In response to the needs of the Central Florida space community, UCF offers a multidisciplinary Minor in Space Studies. It is intended for students of all disciplines and includes courses from aerospace engineering, electrical engineering, environmental engineering, instructional programs, physics, physical education, and political science.

Credit Hour Requirements 21 hrs
Required Courses (9 hrs)
AST 2002 Astronomy 3 hrs
EGN 2815C ST: Space Science and Technology 3 hrs
GEO 4035C Remote Sensing of the Environment 3 hrs

Restricted Electives (12 hrs)
EAS 3010 Fundamentals of Aerospace Flight 3 hrs
EAS 3101 Fundamentals of Aerodynamics 3 hrs
EAS 3530 Space Systems Concepts 3 hrs
EAS 4505 Orbital Mechanics 3 hrs
EGN 4830 Telecommunications 3 hrs
GEO 1200 Physical Geography 3 hrs
GEO 2370 Resources Geography 3 hrs
INR 4404 Space Law 3 hrs
PET 4351C Applied Exercise and Human Physiol 3 hrs
PUP 3508 Space Studies 3 hrs
PUP 4510 Space Policy 3 hrs
SCE 5825 Space Science for Educators 3 hrs

Other Requirements
Formal declaration of the minor should occur before nine credit hours have been completed.
A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
Grades less than “C-” (1.75) are not accepted.
At least 15 hours used in the minor must be earned at UCF.
No credit by exam (TSD, Military credit) may be used.
Internship or Independent Study credit cannot be used toward the minor.

SPANISH: Minor
College of Arts and Humanities
Modern Languages and Literatures, CNH 523
http://www.cas.ucf.edu/forlang/
modernlanguage@ucf.edu
P. Giordano, 407-823-2472

Credit Hour Requirements 18 hrs
Restricted Electives

Other Requirements
Select six upper division courses in Spanish, including the 3000-level advanced grammar (SPN 3300), advanced oral communication (SPN 3760), and composition courses (SPN 3420).
A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements
A minimum grade of “C” (2.0) is required in all courses used to satisfy the minor.
At least 15 hours used in the minor must be earned at UCF within the department.
No credit by exam (TSD, Military credit) may be used.
Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

SPORT BUSINESS MANAGEMENT: Minor
(*Business Majors, Business Undecided, and Business Pending only)
College of Business Administration
DeVos Sports Business Management, BA2 205
F. Polite, 407-823-1158
e-mail: fpolite@bus.ucf.edu

Completion of Common Program Pre-requisites and Admission to a major within the College of Business Administration

Credit Hour Requirements 18 Hrs
Required Courses 18 Hrs
MAR 3023 Introduction to Sport Business Management 3 Hrs
MAR 4711 Sport Business Strategy 3 Hrs
SPB 3503 Ethics in Sport Business 3 Hrs

Restrict elective 9 Hours
SPB 3003 Introduction to Sport Business Management 3 Hrs
SPB 3603 Diversity and Social Issues in Sport Business Management 3 Hrs
SPB 3003 Introduction to Sport Business Management 3 Hrs

Other Requirements:
A minimum GPA of 2.5 is required in all courses to satisfy the minor.
Grades below “B” (3.0) or “S” grades from other institutions are not accepted.
At least 9 hours used in the minor must be earned at UCF within the DeVos Sports Business Management Program.
No credit by exam (CLEP, TSD, Military credit) may be used.
Internship, Independent Study, or Directed Research credit hours cannot count toward the minor.
*Students can take any minor courses if they are a Business major. If they are Business Undecided or Business Pending, they can take the three required courses (SPB 3003, SPB 3603 and SPB 3503). At the time of graduation, students will have to be a Business major to qualify for a minor in Sport Business Management.

STATISTICS: Minor
College of Arts and Sciences
Statistics and Actuarial Science Department, CC II 212
http://www.cas.ucf.edu/statistics
statistics@ucf.edu
Nizam Uddin, 407-823-5525

Credit Hour Requirements 18 hrs
Required Courses (9 hrs)
Choose one course: STA 2023, STA 3032, STA 4163, STA 4164
Select from upper division STA prefix courses taught within the Statistics and Actuarial Science Department.

Restricted Upper Division Electives (9 hrs)
Select from upper division STA prefix courses taught within the Statistics and Actuarial Science Department.

Other Requirements
A minimum grade of “C” (2.0) is required in all courses used to satisfy the minor.

Minors

At least 15 hours used in the minor must be earned at UCF within the department.
No credit by exam (TSD, Military credit) may be used.
Internship, Co-op, or Independent Study credit cannot be used toward the minor.

TECHNICAL EDUCATION and INDUSTRY TRAINING: Minor
College of Education
Department of Teaching and Learning Principles, ED 209
http://reach.ucf.edu/~technicaled/
Dr. Jo Ann M. Whitman, ED 122-T, 386-506-4041
Email: jjwhitema@mail.ucf.edu

The minor in Technical Education and Industry Training provides a limited, but substantive experience in the area of technical education and industry training of adults. The minor is not intended for students admitted to a degree program in the College of Education and does not lead to teacher certification or admission to the College of Education. All courses are offered solely using the Web.

Credit Hour Requirements 18 hrs
Entrance requirements Junior standing
Required courses 18 hrs

- ADE 4382 Teaching Adult Learners 3 hr
- EVT 4598 Advanced Teaching Techniques in Vocational Education 3 hr
- EVT 3062 Professional role of the Vocational Teacher 3 hr
- EVT 3367 Evaluation in Vocational Education 3 hr
- EVT 4169 Curriculum Development for Industry Training 3 hr
- EVT 4065 Principles and Practices in Vocational Education 3 hr

Other requirements
- A minimum of 4 courses of the 6 required must be completed at UCF within the Program of courses listed above.
- A grade of "C" (2.0) or better must be achieved in each course used for this Minor.
- Internship, Co-op, or Independent Study credit cannot be used toward this Minor.
- No Military credit can be used toward this Minor.
- Completion of this Minor does not complete requirements for certification as a Vocational Education teacher nor does it constitute admission to the College of Education.

TECHNOLOGY AND SOCIETY: Minor
College of Engineering and Computer Science
Dr. Ronald Eaglin, ENGR 207
The College of Engineering offers a minor in Technology and Society to interested UCF students. The minor is intended for students not enrolled in the College of Engineering, although students in the College may also be awarded the minor.

Credit Hour Requirements 18 hrs
Suggested Prerequisite Courses
- MAC 1105 College Algebra
- GEP Cultural and Historical Foundations

Restricted Upper Division Electives
A minimum of nine hours must be taken from the CET/EST/ETI prefix courses listed below.

- CET 3010 Introduction to Information Technology
- EST 3222 Introduction to Photonics
- ETI 3671 Technical Economic Analysis
- ETI 4205 Applied Logistics
- ETI 4635 Technical Administration
- ETI 4700 Occupational Safety
- ETI 4836 Space Systems Technology
- GEO 2370 Resources Geography
- LIT 3513 Science Fiction
- LIT 4433 Survey of Technical and Scientific Literature
- PUP 3203 Environmental Politics
- PUP 4503 Government and Science
- PUP 4510 Space Policy

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.

Grades less than "C" (1.75) are not accepted.
At least 15 hours used in the minor must be earned at UCF within the department.
No credit by exam (TSD, Military credit) may be used.
Internship or Independent Study credit cannot be used toward the minor.
Prerequisites for any course must be met prior to enrollment. Some courses may have prerequisites not required for the student's major/minor.

THEATRE - GENERAL: Minor
College of Arts and Humanities
Theatre Department, UTC 180
http://www.theatre.ucf.edu
theatre@ucf.edu
Kristina Tollefson, 407-823-2862

Credit Hour Requirements 27 hrs
Entrance Requirement
A successful interview

Required Courses (27 hrs)

Note: The number assigned many courses will change. Use the Prefix and title to determine the proper course.

- THE 2000 Theatre Survey 3 hrs
- THE 200L* Theatre Participation - Management I 1 hr
- THE 2304 Script Analysis 3 hrs
- TPA 2290L Technical Participation - Production I 1 hr
- TPA 2190L Theatre Participation - Performance I 1 hr
- THE 3110 Theatre History I 3 hrs
- THE 3111 Theatre History II 3 hrs
- THE 3305 Dramatic Literature I 3 hrs
- THE 2271 Performance Studies 3 hrs
- THE 3306 Dramatic Literature II 3 hrs
- TPA 2201 Technical Theatre Production 2 hrs
- TPA 2201 Technical Theatre Production Lab 1 hr

Other Requirements
- Participation on a minimum of one departmental production during both the Fall and Spring terms for four semesters.
- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 18 hours used in the minor, including those marked by an asterisk, must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

URBAN AND REGIONAL PLANNING: Minor
College of Health and Public Affairs
Department of Public Administration, HPA2 238
Mr. Robert Morin, 407-823-1190
Email: morin@mail.ucf.edu
Fax: 407-823-5651

Urban and regional planning is one area of public administration that has seen considerable growth over the past few years. Areas like Central Florida need many professionals who assist government, communities, and private sector planning organizations to provide growth that is environmentally feasible, aesthetically attractive, socially and politically acceptable, technically sustainable, and economically dynamic. This minor looks at all of these diverse and competing interests, and provides the basics for those interested in employment in this area of great demand. Students who pursue a minor in urban and regional planning may find positions as a city planner, urban designer, planning specialist, environmental program manager, or economic development specialist, among others.

Credit Hour Requirements 21 hrs

Required Courses (21 hrs)

- PAD 3330 Urban and Regional Planning 3 hrs
- PAD 4712 Information Systems for Public Managers and Planners 3 hrs
- PAD 4331 Land Use and Planning 3 hrs
- PAD 4334 Urban Design 3 hrs
- PAD 4253 Community and Economic Development 3 hrs
- PAD 4351 Issues in Environmental Program Management 3 hrs
WOMEN’S STUDIES: Minor
College of Arts and Humanities
http://www.cas.ucf.edu/womensstudies
L. M. Logan, 407-823-6502,
Email: womensst@ucf.edu

The minor in Women’s Studies provides students with an opportunity to learn about women’s historical and contemporary roles, gain a working knowledge of interdisciplinary feminist scholarship, and reflect critically on their life experiences as shaped by gender and other forms of diversity. Courses are drawn from the departments of Art, Communications, Criminal Justice, English, Exceptional and Physical Education, Health Professions and Physical Therapy, History, Philosophy, Political Science, Psychology, Nursing, Social Work, Sociology and Anthropology, and Theatre.

Credit Hour Requirements 18 hours
Required Core Courses (6 hrs)
- WST 3015 Introduction to Women’s Studies 3 hrs
- Select one course:
  - PHM 3123 Feminist Theories 3 hrs
  - LIT 4554 Advanced Feminist Theories
  - WST 3561 Third Wave Feminisms

Upper Division Electives (12 hrs)*
Student must select 2 courses from 2 of the 4 areas below:
- Women's History
  - AMH 3561 Women in American History I
  - AMH 3562 Women in American History II
  - ASH 4304 Women in China
  - EUH 4610 Women in European Society

Representations of Women
- AML 3383 Contemporary American Women’s Fiction
- ARH 4892 Women in Art
- COM 4014 Gender Issues in Communication
- FIL 3309 Women in Film
- LIT 3383 Women in Literature
- PHI 3022 Sexuality, Gender & Philosophy
- WST 3460 Womanist Studies

Women's Wellness
- NUR 4056 Women's Health Issues
- PEM 2405 Self Defense for Women and Men
- SOP 2772 Sexual Behavior
- SOP 3742 Psychology of Women

Women and Social Policy
- ANT 3302 Sex, Gender and Culture
- ANT 4308 Women and Gender Issues in Lat America
- CCJ 4670 Women and Crime
- CCJ 4681 Domestic Violence and Justice System
- CPO 4710 Women and Comparative Politics
- INR 4085 Women, Gender, and Globalization
- PUP 4323 Women and Public Policy
- SYD 3800 Sex Roles in Modern Society
- SYD 4810 Women in Contemporary Society
- SYD 4100 Family Trends
- WST 3500 Gender Issues in Community Activism

Foundation Requirement (3 hrs)
- IDS XXX World Comparative Studies

Thematic Concentrations Restricted Electives (15 hrs)
Select five courses from within one of the concentrations (A-F) below. Courses not on the list may be taken with the prior approval of the program advisor. Students must meet all prerequisites before enrolling in these courses. No more than 6 hours of coursework may overlap in a student’s major and this minor, with permission of the Liberal Studies office. Two upper division foreign language courses (6 hours) may be substituted in any of the thematic concentrations.

A. Language and Culture
- AML 3615 Harlem, Haiti, and Havana
- ANT 3840 Language and Culture
- ANT 3145 Archaeology of Complex Societies
- ANT 3319 The Anthropology of Diaspora
- ANT 3212 Peoples of the World
- ANT 4702 Culture, Power and Development
- FSS 3008 Culture and Cuisine
- HFT 4866C Exploring Wines of the World
- HFT 3868 History and Culture of Wine
- HFT 4894 International Gastronomy
- HUM 3419 Islamic Thought and Culture

Regional courses: Students may take up to two courses dealing with at least two regions of the world in consultation with academic advisor.

B. Economics
- ANT 4702 Culture Power and Development
- ECO 3703 International Trade
- ECO 4xxx International Macroeconomics
- ECO 4701 Seminar in Global Economic Policy
- ECS 4013 Economics of Developing Areas
- ECP 3303 Economics and the Environment
- HFT 3700 Tourism Management
- INR 4035 International Political Economy

C. Biological and Geophysical Environment
- IDS 3150 Foundations of Environmental Studies
- ECP 3303 Economics and the Environment
- SYD 4510 Environmental Sociology
- HFT 4735 Tourism Geography
- INR 4351 International Environmental Law
- ENV 3001 Intro to Environmental Engineering
- GIS 3043C GIS for Environmental Studies
- GIS 4035C Remote Sensing of the Environment
- PHI 3033 Philosophy, Religion, and the Environment
- PHI 3640 Environmental Ethics

D. Social Structure and Change
- ANT 3145 Archaeology of Complex Societies
- ANT 3272 Law and Culture
- ANT 4702 Culture Power and Development
- PLA 4830 World Legal Systems
- SOW 5109 Violence Against Women
- SYP 4454 Sociology of the Global System
E. Media and Communication

FIL 3510  World Cinema Traditions
FIL 3514  International Cinema
FIL 4564  Africana Cinema
COM 4461  Intercultural Communication
LIN 4643  Cross Cultural Communication
THE 3312  Global Theater

F. World Independent Specialization

Any five upper division courses from the approved list of courses in any thematic concentration may be selected for this option with approval of the Liberal Studies office.

Foreign Language Proficiency Requirement  (0-8 hrs)  Students must demonstrate the equivalent of one year of successful college-level study in a foreign language. They can do this either by successful completion of the appropriate college-level course(s) or by examination.

ADDCICTIONS: Certificate
College of Health and Public Affairs
School of Social Work, HPA 1 204
BSW Coordinator, 407-823-2114
socialwk@mail.ucf.edu

This certificate is open only to students in the undergraduate social work program (BSW). Addiction courses may be taken as electives by non-majors and be applied to the state certification. The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers. Addictions have a profound impact on the lives of many people, their families, and their communities. Students will learn about patterns of addictions in society and prevention and intervention strategies. The certificate program includes academic work through courses in social work skills in the area of addictions. The certificate program will enable students to earn credit toward their certification through the Certification Board for Addiction Professionals of Florida but not the certificate program.

Admission Requirement:  This Certificate is only open to students in the undergraduate social work program (BSW). Students not in the social work program but enrolled in their junior or senior year at UCF may take the addictions courses to be applied toward their state certification through the Certification Board for Addiction Professionals of Florida. Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements:  12 hrs
Required Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 4705</td>
<td>Prevention and Treatment of Adolescent Substance Abuse</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOW 4906</td>
<td>Independent Study in Addictions – (i.e. Women in Treatment, Drug Control Policy, etc.)</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Restricted Electives:
Select from one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 4651</td>
<td>Drugs and Crime</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Other Requirements:
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 12 hours used in the certificate must be earned at UCF within the department.
- No credit by exam (TSD, Military credit), may be used.
- Independent Study cannot be used toward the minor.

American Sign Language (ASL): Certificate
College of Health and Public Affairs
Department of Communication Disorders,
HPA-2, Suite 101
http://www.cohpa.ucf.edu/comdis

Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798
Email: jchwart@mail.ucf.edu

The certificate is designed to provide students with conversation- al competency in ASL to communicate with deaf and hard of hearing individuals who use ASL as their primary mode of communication. In addition, students completing the certificate program would have the prerequisite skills to seek further instruction in Interpreter Education. More specifically, the certificate program is designed for undergraduate students majoring in Communication Disorders, general and special education, psychology, theater, the health professions, and other disciplines; students at area community colleges; professionals working in Central Florida; and, the general public who wish to enhance their ability to communicate with the deaf community and to enhance their employment potential.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements  16 hrs
Required Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 4612</td>
<td>Introduction to American Sign Language</td>
<td>4 hrs</td>
</tr>
<tr>
<td>SPA 4613</td>
<td>Intermediate American Sign Language</td>
<td>4 hrs</td>
</tr>
<tr>
<td>SPA 4614C</td>
<td>American Sign Language III</td>
<td>4 hrs</td>
</tr>
<tr>
<td>SPA 4615</td>
<td>American Sign Language IV</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

Certificates will be awarded only at the time of degree completion.
Certificates

Other Requirements
- A minimum grade of “C-” (1.75) is required in each course.
- Students must earn an overall GPA of 2.0 in courses used to complete the certificate.
- At least 8 hours used in the program must be earned at UCF with the Department of Communicative Disorders.
- No credit by exam (TSD, Military credit) Internship or Independent Study credit may be used toward the certificate.

BEHAVIORAL FORENSICS: Certificate
College of Sciences
Psychology Department, PH 302
http://www.psych.ucf.edu/
E-mail: kmottare@ucf.edu
Contact: K. Mottarella; 321-433-7892

Credit Hour Requirements 27 hrs
Prerequisite Courses (6 hrs)
PSY 2002 General Psychology or GEP
SYG 2000 General Sociology
PPE 3003 Personality Theories
SYP 3510 Soc of Deviant Behavior

Required Courses (12 hrs)
CLP 4390 Forensic Psychology
SOP 3751 Legal Aspects of Psych
SYP 3520 Criminology

Select one course: 3 hrs
SYP 3540 Sociology of Law
SYD 4813 Womem and Social Policy

Restricted Electives (9 hrs)
Note: It is the student’s responsibility to meet all prerequisites for any course selected.

From Psychology, select one of the following:
CLP 3143 Abnormal Psychology
CLP 3302 Clinical Psychology
CLP 4134 Childhood Psychopathology
PCO 4203 Interviewing and Counseling

From Sociology, select one of the following:
SYP 3511 Sociology of Murder
SYP 3530 Juvenile Delinquency
SYP 3562 Soc Perspectives on Domestic Violence
SYP 4521 Criminal Victimization in Society
SYP 4514 Sociology of Violence
SYP 4536 Gangs and Society

From Criminal Justice, select one of the following:
CCJ 3014 Crime in America
CCJ 3024 Criminal Justice System
CCJ 4670 Women and Crime
CJE 4174 Serial Murder & CJ
CCJ 4616 Criminal Profiling in CJ
CCJ 3667 Victims and the CJSystem
CCJ 4681 Domestic Violence & the Justice Syst
CCJ 4690 Sex Offenders & the CJ System

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the certificate.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the certificate must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the certificate.

CHILDREN’S SERVICES: Certificate
College of Health and Public Affairs
School of Social Work, HPAI 204
BSW Coordinator, 407-823-2114

This certificate is open only to students in the undergraduate social work program. The Children’s Services Certificate is designed to prepare Social Work students to work with children and families who are facing issues of abuse or neglect, or are involved in some way with the child welfare system. Students learn to assess abuse and neglect and to develop appropriate ways to work with the families and elements of the child welfare system. The certificate includes both classroom academic work and a specialized field internship. The program is a joint effort between the Schools of Social Work in Florida and the Department of Children and Families to improve services to children and their families.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 18 hrs
Required Courses
SOW 3552 Practice II: Interpersonal Skills
SOW 4564 Children’s Services
SOW 4560 Child Abuse: Treatment & Prevention
SOW 4510 Field Education*

* Placement with the Department of Children and Families working with child welfare or placement in an agency that serves children.

Other Requirements
- Students need to discuss their interest in the certificate with the field office while arranging for their BSW placement.

CRIME ANALYSIS AND CRIME MAPPING: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPAI 311
Cory Watkins, 407-823-0365
E-mail: rwatkins@mail.ucf.edu

Crime analysis and crime mapping are now recognized as essential and vital functions in law enforcement. Analysts take advantage of state-of-the-art computer technologies to support operations, investigations, and management. These specialists take data and produce information that is used to identify crime patterns, monitor crime trends, forecast future crime events, prepare statistical crime reports, and work directly with investigators to identify suspects. Five classes (15 credit hours) are required for this undergraduate certificate.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 15 hrs
Required Courses (in sequence) (9 hrs)
CJE 3662 CJ Information Technology and Data Management
CJE 4663 Crime Analysis I
CCJ 4076 Crime Analysis II

Restricted Upper Division Electives (6 hrs)
Select two of the following:
CCJ 3451 Justice System Technology
CJE 3444 Crime Prevention
CJE 4654 Crime and Place
CCJ 3450 Criminal Justice Manager
CCJ 4454 Policy Development in Law Enforcement
CCJ 4459 Justice Agency Operations

Other Requirements
- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF within the Department of Criminal Justice.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

CRIME SCENE INVESTIGATION: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPAI 311; Department of Sociology and Anthropology, PH 403
David Fabianic, 407-823-5940Dr. Mary Ann Eastep, 407 823-3598
meastep@mail.ucf.edu Fabianic@mail.ucf.edu
John J. Schultz, 407-823-2618
jschultz@mail.ucf.edu

Crime scene processing is increasingly becoming a multi-disciplinary endeavor with the application of technologically advanced methods.

Treatments of the initial crime scene is fundamental not only to the pursuit of offenders but also to the presentation of the prosecutor’s case once offenders have been apprehended. The certificate program is a means of organizing information required to perform basic crime scene investigationsinvestigations. It provides theoretical and practical information to support and train crime scene investigators and specialists.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 15 hours
Required Courses (12 hrs)
ANT 4521C Forensic Anthropology
ANT 4101 Archaeological Sciences
CCJ 4616 Criminal Profiling in CJ
CJT 4100 Criminal Investigation
African American Heritage area (choose two classes)
Choose two classes from one of the following areas (6 hrs)

Required Courses (12 hrs)
Credit Hour Requirements 18 hrs

Cultural Heritage, American Heritage, Anthropology, Environmental Tourism, or Latin cultural theme can be fulfilled by specialized areas in African American Studies, history, anthropology, and political science. The program complements several fields, including hospitality management, African American Studies, history, anthropology, and political science. The cultural theme can be fulfilled by specialized areas in African American Heritage, Anthropology, Environmental Tourism, or Latin Cultural Heritage.

Credit Hour Requirements 18 hrs

Restricted Upper Division Electives (3 hrs)
Select one of the following:
- ANT4528C Advanced Forensic Anthropology 5 hrs
- SYP3511 Sociology of Murder 3 hrs
- CJE 4630 Serial Murder and the Criminal Justice System 3 hrs
- CCJ 4195 Interviews and Interrogations in CJ 3 hrs
- CHS 3501 Introduction to Forensic Science 3 hrs
- ANT 3115 The Archaeological Method and Theory 3 hrs

Other Requirements
- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

CRIMINAL PROFILING: Certificate
Department of Criminal Justice and Legal Studies, HPA1 311
Dr. Mary Ann Eastep, 407 823-3598 meastepp@mail.ucf.edu

New and more sophisticated techniques and tools of criminal investigation are being developed to assist in meeting the challenges facing today's law enforcement officers. One area that is becoming formalized in law enforcement is criminal profiling. The certificate program in Criminal Profiling is a way of organizing the fundamental information and education required for profiling. It provides both the theoretical and practical information related to the types of crimes for which profiling is most useful. The program requires 15 credit hours of undergraduate work.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 15 hrs

Required Courses (12 hrs)
- CLP 3143 Abnormal Psychology 3 hrs
- CJE 4830 Serial Murder and the Criminal Justice System 3 hrs
- CCJ 4690 Sex Offenders and the Criminal Justice System 3 hrs
- CCJ 4195 Criminal Profiling in Criminal Justice 3 hrs

Restricted Upper Division Electives (3 hrs)
Select one of the following:
- CJT 4300 Criminal Investigation 3 hrs
- CCJ 4661 Terrorism 3 hrs
- CCJ 4195 Interviews and Interrogations in CJ 3 hrs

Other Requirements
- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the certificate.

CULTURAL TOURISM: Certificate
Office of Undergraduate Studies
Office of Liberal and Interdisciplinary Studies
CL-I, Room 302; http://liberalstudies.info
ls@mail.ucf.edu

This certificate harnesses the naturally related fields of tourism to cultural studies, focusing on the specific cultural and business conditions in Central Florida as well as tourism. The certificate complements several fields, including hospitality management, African American Studies, history, anthropology, and political science. The cultural theme can be fulfilled by specialized areas in African American Heritage, Anthropology, Environmental Tourism, or Latin Cultural Heritage.

Credit Hour Requirements 18 hrs

Required Courses (12 hrs)
- HFT 3540 Guest Service Management 3 hrs
- HFT 3700 Tourism Management 3 hrs
- HFT 4735 Tourism Geography 3 hrs
- ANT 4438 Anthropology of Tourism 3 hrs
- Choose two classes from the following areas (6 hrs)
  - African American Heritage area (choose two classes)
  - AFA 3104 The African American Experience
  - AFA 4105 Documenting African American Heritage and Life
  - SYD 3700 Race and Ethnic Minorities in the United States
  - Anthropology area (choose two classes)
  - ANT 2100 Archaeology and the Rise of Human Culture
  - ANT 3212 Peoples of the World
  - ANT 2410 Cultural Anthropology
  - ANT 3115 Archaeological Method and Theory
  - ANT 3930 Applied Anthropology
  - Environmental Tourism area (choose two classes)
  - BOT 5152C Local Flora
  - PCB 3442 Florida Aquatic Ecology
  - INR 4351 International Environmental Law
  - PUP 3203 Environmental Politics
  - PUP 4204 Sustainability
  - SYD 4510 Environmental Sociology
- Latin American area (choose two classes)
  - ANT 3163 Meso American Archaeology
  - ANT 3168 Maya Archaeology
  - ANT 3332 Peoples and Cultures of Latin America
  - ANT 4340 Caribbean Archaeology
  - ARH 4655 Meso American Art
  - COP 4303 Comparative Latin American Politics
  - LAH 3400 History of Mexico and Central America
  - LAH 3470 History of the Caribbean
  - LAH 3130 Latin American History I
  - LAH 3200 Latin American History II

Other Requirements
- A grade of "C" or above (2.0) is required in each course used to satisfy the certificate.
- At least 12 hours used in the certificate must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study or Co-op credit cannot be used toward the certificate without prior permission of the program director.

DIGITAL MEDIA: Certificate
College of Arts and Humanities
CREAT Digital Media Program, 500 OTC
bowers@mail.ucf.edu

Program Director: Clint Bowers, 407-823-6100

The certificate program focuses on providing an opportunity for students with substantial media-related skills to learn project management skills and participate in a Senior Project. Admission to the Certificate Program is by portfolio only.

Credit Hour Requirements:
- Required Course: (3 hrs)
  - DIG 3525 Digital Media Production I
  - DIG 4524L Digital Media Production II
  - IDS 4703 Digital Media Production II
  - (may be repeated for credit)

Restricted Elective: (3 hrs)
Any course listed under the Advanced Specializations of the Digital Media major (substitutions must be approved by the program Director prior to being taken)

Senior Project: (6 hrs)

Other Requirements
- Admission to the Digital Arts Seminar requires evaluation of a portfolio of work which demonstrates the student's creativity and technical accomplishment is some artistic or technical domain.
- All evaluations are conducted by the program Curriculum Committee.

FINANCE: Certificates*
College of Business Administration, BA 409
http://www.bus.ucf.edu/finance

Restricted to Finance majors
Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 12-15 hrs

Certificate in Banking 15 hrs
- FIN 4313 Management of Financial Institutions 3 hrs
- FIN 4324 Commercial Bank Management 3 hrs
- ACG 3131 Financial Accounting Concepts & Analysis 3 hrs
### Certificates

<table>
<thead>
<tr>
<th>Certificate in Corporate Finance</th>
<th>12 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 3414 Intermediate Corporate Finance</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIN 3470 Financial Statement Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td><strong>FIN 4424</strong> Adv Topics in Financial Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td><strong>FIN 4941</strong> Internship</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Certificate in Investments</th>
<th>12 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 3504 Investment Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIN 4514 Portfolio Analysis and Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIN 4533 Financial Derivatives</td>
<td>3 hrs</td>
</tr>
<tr>
<td><strong>FIN 4941</strong> Internship</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

*Restricted to finance majors. These certificates do not require additional hours beyond the finance major program. They are intended to allow students to develop specializations in specialized areas of interest.*

**Internships must be approved internships in the area of specialization, and should be completed in the senior year after completing at least 6 hours of finance courses. Internship packets are available in the Department of Finance (BA 409). Certificate attainment is subject to the availability of internship opportunities in the area of interest. A student must have an overall GPA of at least 2.75 to qualify for an internship.

### JAZZ STUDIES: Certificate

*College of Arts and Humanities*

**Department of Music, CNH 205**

http://www.cas.ucf.edu/music/

K. Koons, 407-823-2869

Certificates will be awarded only at the time of degree completion. This certificate is designed for undergraduate students majoring in music who desire to devote time to specific coursework in each of these areas. This is only a component of the B.A. or B.M. Music degree, provided that the student works with an advisor in the program.

**Admission Requirement**

Student must satisfactorily audition for the Department of Music.

**Credit Hour Requirements**

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>13 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 3170 Jazz Theory I</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUS 3171 Jazz Theory II</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUS 3641 Jazz Improvisation I</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUS 3642 Jazz Improvisation II</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MUS 2016 Evolution of Jazz</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MUS 4632 Independent Study in Jazz</td>
<td>2 hrs</td>
</tr>
</tbody>
</table>

**Other Requirements**

- Must complete all course and non-course requirements (recitals and proficiency examinations) of the Music major in order to qualify for the certificate within the degree.
- A minimum GPA of 2.0 is required in all music courses attempted, whether or not used to satisfy the certificate.
- At least 9 hours used in the certificate must be earned at UCF within the Department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the certificate.

### LANGUAGE DEVELOPMENT AND DISORDERS: Certificate

*College of Health and Public Affairs*

**Department of Communicative Disorders**, HPA2, Suite 101

http://www.cohpa.ucf.edu/comdis

UG Coordinator: Jamie Schwartz, 407-823-4798

Language disorders are the most prevalent communication disorder. Typically children, adolescents and adults with language disorders are served via a team approach that includes speech-language pathologists, psychologists, neurologists, pediatricians, nurses, social workers, physical therapists, occupational therapists, school counselors, and general and special educators. This certificate is designed for undergraduate students and practitioners in disciplines related to speech-language pathology who wish to pursue a special emphasis in language development and disorders in children, adolescents and adults.

Certificates will be awarded only at the time of degree completion.

**Credit Hour Requirements**

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>13 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 3716 Language Development: Birth through 8 years</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LIN 3717 Language Development: 9 through 18 years</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LIN 4711 Language Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LIN 4711L Language Analysis Lab</td>
<td>1 hr</td>
</tr>
<tr>
<td>SPA 4400 Language Disorders Across the Life Span</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**Other Requirements**

- A minimum grade of “C-” (1.75) is required in each course.
- Students must earn an overall GPA of 2.0 in courses used to complete the certificate.
- At least 10 hours used in the program must be earned at UCF within the Department of Communicative Disorders.
- No credit by exam (TSD, Military credit) internship or independent study credit may be used toward the certificate.

### MARKETING: Certificates
Certificate in Real Estate Brokerage

**9 hrs**

Certificates will be awarded only at the time of degree completion.

**Certificate in Selling and Sales Management**
MAR 3403 Sales Force Management (internship in sales-related position)
**MAR 4941** One additional Marketing elective

**Certificate in Retailing Management**
MAR 4231 Retailing Management
**MAR 4941** (internship in retail-related position)
One additional Marketing elective

**Certificate in e-Marketing**
MAR 3880 e-Marketing
**MAR 4941** (internship in "e"-related position)
One additional Marketing elective

**Certificate in Sport Management**
MAR 4711 Sport Marketing
**MAR 4941** (internship in sport-related position)
One additional Marketing elective

**Certificate in Healthcare Marketing**
MAR 4712 Healthcare Marketing
**MAR 4941** (internship in healthcare-related position)
One additional Marketing elective

**Certificate in Services Marketing**
MAR 4841 Services Marketing
**MAR 4941** (internship in services-related position)
One additional Marketing elective

**Certificate in Entertainment Marketing**
MAR 4715 Entertainment Marketing
**MAR 4941** (internship in entertainment-related position)
One additional Marketing elective
*These nine hours count as the nine elective marketing hours required in the major.
**Certificate attainment is subject to the availability of internship opportunities in the area of interest.

**NONPROFIT MANAGEMENT: Certificate**

College of Health & Public Affairs

Department of Public Administration, HPA 238
http://www.cohpa.ucf.edu/pubadm/

Dr. Mary Ann Feldheim, 407-823-2604

The Certificate program in Service-Learning is designed for students in any discipline who seek to engage in a reflective analysis of community problems. At least 12 hours used in the certificate must be earned at UCF within the Department of Public Administration.

Credit Hour Requirements

**18 hrs**

Required Courses (15 hrs)
PAD 4144 Nonprofit Organizations 3 hrs
PAD 4148 Volunteer Management 3 hrs
PAD 4147 Resource Dev. in the Nonprofit Sector 3 hrs
PAD 4325 Program Eval. Public & Nonprofit Org 3 hrs
PAD 4153 Strategic Planning & Implementation 3 hrs

Restrictive Elective Course (3 hrs)
See advisor for approved courses.

**Credit Hour Requirements**

15 hrs

Certificates will be awarded only at the time of degree completion.

**Certificate in Real Estate Brokerage**

Completion of this certificate qualifies a student to sit for the Florida real estate sales license.

- **REE 3043** Real Estate Law 3 hrs
- **REE 4303** Real Estate Investing Analysis 3 hrs
- **MAR 3391** Professional Selling 3 hrs
- **FIN 4941** Internship (real estate brokerage) 3 hrs

**Certificate in Real Estate Appraisal**

Completion of this certificate qualifies a student to sit for the Florida real estate appraiser's license.

- **REE 3043** Fundamentals of Real Estate 3 hrs
- **REE 3433** Real Estate Law 3 hrs
- **REE 4103** Real Estate Appraisal and Evaluation 3 hrs
- **MAR 3391** Professional Selling 3 hrs
- **FIN 4941** Internship (real estate appraisal) 3 hrs

**Certificate in Mortgage Brokerage**

Completion of this certificate qualifies a student to sit for the Florida mortgage broker's license.

- **REE 3043** Fundamentals of Real Estate 3 hrs
- **REE 3433** Real Estate Law 3 hrs
- **REE 4204** Residential Real Estate Finance 3 hrs
- **MAR 3391** Professional Selling 3 hrs
- **FIN 4941** Internship (mortgage brokerage) 3 hrs

*Restricted to real estate majors. These certificates do not require additional hours beyond the BA and BSBA real estate major programs. They are intended to allow students to develop specializations in specific areas of interest and to prepare for licensing exams.
**Internships must be paid internships in the area of specialization, and should be completed in the senior year after completing at least 6 hours of real estate courses. Internship packets are available in the department of Finance (BA 409). Certificate attainment is subject to the availability of internship opportunities in the area of interest. A student must have earned an overall GPA of at least 2.75 to qualify for an internship.

## SECURITY MANAGEMENT: Certificate

College of Health and Public Affairs

Department of Criminal Justice and Legal Studies, HPA 311

Jerome Randall, 407-823-2603
E-mail: jrandall@mail.ucf.edu

The security industry is rapidly growing in the State of Florida and throughout the nation. This area is in need of qualified, innovative managers and leaders to meet the demands of the twenty-first century. Students interested in this major are recommended to consult the undergraduate advisor or the director of the Security Management Program. Interestingly, the bachelor's degree is a popular choice for those interested in the security industry.

Credit Hour Requirements

15 hrs

**Required Courses**

(12 hrs)
- **CCJ 3842** Special Security Problems 3 hrs
- **CJT 3804** Security Administration 3 hrs
- **CJT 3835** Security Management 3 hrs
- **CJT 4843** Risk Management 3 hrs
- **CCJ 4644** White Collar Crime 3 hrs

**Restrictive Upper Division Electives**

(3 hrs)
Select one of the following:
- **CEJ 4661** Conflict and Terrorism 3 hrs
- **CJE 3444** Crime Prevention 3 hrs
- **CJT 3842** Special Security Problems 3 hrs
- **PLA 9987** Seminar in Contemporary Legal Problems 3 hrs
- **PLA 3273** Law of Torts 3 hrs

**Other Requirements**

- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the certificate must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
**Internship or Independent Study credit cannot be used toward the certificate.**

## SERVICE-LEARNING: Certificate

Office of Undergraduate Studies

Experiential Learning, PH 208
http://www.service.learning.ucf.edu

S. Dressler, 407-823-5000
Email: EL@mail.ucf.edu

The certificate program in Service-Learning is designed for students in any discipline who seek to engage in a reflective analysis of community service.
Certificates

Community service as it relates to academic course work. Service-Learning furthers the learning objectives of the academic course, addresses community needs, and requires students to reflect on their activity in order to gain an appreciation for the relationship between civics and academics. Through Service-Learning (SL) courses, students develop academic skills, civic responsibility, and career opportunities. This certificate is open to all undergraduate and graduate students in any major.

Credit Hour Requirements 12 hrs
Students may choose any of the UCF-approved service-learning courses in any discipline to satisfy the credit hour requirements. Service-Learning courses are designated with an “SL” and can be accessed under “special groups” in the class schedule.

Course Requirements: 4 UCF-approved SL courses
Students may choose any four (4) of the UCF-approved service-learning courses in any discipline to satisfy the credit hour requirements. Service-Learning courses are designated with an “SL” and can be accessed under “special groups” in the class schedule.

Other Requirements
- Minimum GPA of 2.5 in UCF-approved SL classes.
- Minimum of 60 community service hours in four (4) UCF-approved SL classes.

TRANSLATION AND INTERPRETATION: Certificate
College of Arts and Humanities
Modern Languages and Literatures, CNH 505
http://www.cas.ucf.edu/forlang
foreignlanguage@ucf.edu
Maria Redmon, CNH 512, 407-823-5738
Email: mredmon@mail.ucf.edu

Credit Hour Requirements 18 hrs

Required Skills
Students must pass an oral exam for proficiency in Spanish and English before being admitted to the certificate program.

Required Courses: (12 hrs)
- SPT 3800 Span Translation and Interpretation 3 hrs
- SPT 3805 Span Trans & Interp for Mass Com 3 hrs
- SPT 3809 Medical Span Trans/Interp 3 hrs
- SPT 3831 Spanish Legal Trans/Interp 3 hrs

Restricted Upper Division Electives (6 hrs)
- SPH 3933 Spanish Across the Curriculum 3 hrs
- SPH 4941 Internship 3 hrs

Any upper division SPH or SPT course with advisor's approval

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the certificate.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the certificate must be earned at UCF within the Department.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study or Co-op credit cannot be used toward the certificate.
- Satisfactory completion of translation and interpretation exit exam.

WOMEN’S STUDIES: Certificate
College of Arts and Humanities
Women's Studies Program, CNH 201H
http://www.cas.ucf.edu/womensstudies
L. M. Logan, 407-823-6502.
email: womensst@ucf.edu

The certificate program in Women's Studies is designed to provide students with a basic, working knowledge of gender roles and women's issues. The certificate program is open to both degree-seeking and non degree-seeking students, but should be particularly beneficial to students in professional degree programs who will serve women and/or girls as a client population, but whose elective hours are restricted.
**STUDY ABROAD PROGRAMS**

**International Studies and Programs**
Interim Assistant Vice President of International and Interdisciplinary Studies: Dr. Diane Z. Chase
Associate Director: Angel Cardec
Research Pavilion, Suite 395, 407-882-2300; Fax: 407-275-4386; P.O. Box 163105, Orlando, FL 32816-3105; [http://www.international.ucf.edu](http://www.international.ucf.edu)

The Office of International Studies (OIS) serves as a bridge that connects UCF students and faculty to diverse world communities. As a University level office, the OIS focuses on creating a trans-national understanding of the social, economic, cultural, environmental, and political realities of the 21st Century. The OIS, the Office of the Special Assistant to the President for Global Perspectives, the International Services Center and the Center for Multilingual, Multicultural Studies work together to provide a concerted effort to implement the university’s broader strategic plan for internationalization.

The OIS mission is to promote, support, facilitate, advocate, and implement activities that lead to the internationalization of education and research at UCF. This is accomplished through: faculty development activities; internationalization of courses and programs; enhancement of international exchanges; promotion of international partnerships; and the identification and acquisition of external funding.

Central to the global mission at UCF is an ongoing program of international grants and development projects. The OIS secures, through external funding agencies, the resources necessary for faculty and curriculum development, joint research projects, and partnership programs. Recent grants include U.S. Department of Education Fulbright-Hays Group Projects Abroad grants to Mexico, the Caribbean, Peru, India, and Bolivia.

Several enrichment opportunities for faculty have OIS involvement, including the International Track of the UCF Faculty Development Summer Conference, other faculty workshops, and research opportunities.

The OIS assists in developing and processing agreements with institutions outside the United States. These agreements vary from protocolary statements of cooperation to specific agreements covering participation in theses and dissertation committees, student and faculty exchanges, and study abroad programs. The OIS provides templates, facilitates processing, and maintains agreement files.

Through the OIS, UCF develops, promotes and supports programs of study throughout Africa, Asia, Europe, Latin America and the Caribbean (see below).

**Study Abroad Programs**

By its very nature, study abroad provides an exciting setting for learning – one in which student interaction is central to the learning process. Study abroad participants also learn about new environments, customs and, in many cases, new languages. They deal with the uncertainties of international travel and must adapt to the dynamics of the group. Maturity, self confidence, and awareness of other cultures are only some of the benefits of study abroad. Students are invited to expand their classroom, their experience, and their future through study abroad.

UCF study abroad opportunities are a cooperative venture of academic departments and the Office of International Studies (OIS), and are designed to provide an exceptional learning experience, while matching the needs and situations of UCF students. The two main types of programs administered by UCF are Short Term Programs and Student Exchanges.

Short Term Programs are intended to provide the maximum amount of exposure to a subject in the shortest period of time. They must meet all the criteria for UCF courses and can be delivered as complete modules, or as a complement to a course delivered on campus or online. Examples of short term programs that UCF has offered in the past include the Department of Foreign Languages’ intensive programs in France, Japan, Germany, Spain and Italy; Social Work Department programs in South Africa and Russia; Criminal Justice in Barbados and Russia, Nursing in Sweden, Education in the Netherlands, Hospitality in France, and Art in Scotland.

Student Exchanges provide the opportunity to become a student at a university abroad for one semester or even a year. The longer terms allow for a more extensive experience abroad. Student exchanges require greater personal commitment, maturity and organization. Therefore, they are limited to UCF students who have attained at least a junior status and who have a minimum 3.0 GPA. Some of the exchanges that have been offered at UCF are Qingdao University in China; Universite de Angers and Paul Sabatier in France; Meikai University in Japan; University of Lima in Peru; the universities of Lund, Jonkoping, Mallardalen, and Dalarna in Sweden; and University College Northampton in the United Kingdom.

UCF students may also take advantage of the options provided by other member universities in the State University System (SUS) of Florida. There are numerous programs available through the system. UCF students apply to these programs directly and must become transient students at the host institution.

There are many additional study abroad options available to UCF students. It is important that students investigate their choices, the requirements and the implications that each choice has in terms of cost, credit transferability and progress toward graduation. OIS staff members can provide program advice and general information about options. For up-to-date information, please visit [www.international.ucf.edu](http://www.international.ucf.edu), or contact the office at 407-882-2300.
Completion of the UCF General Education program or an AA degree from a Florida Public Community College
See Common Program Prerequisites
3.25 GPA after completion of 80 credit hours
1260 SAT or 28 ACT desired. If students do not meet this criterion, they must submit a GRE or GMAT score
Apply to the program in the fifth semester of classes. Admission is not automatic. Interested students will need to submit an essay and must be interviewed.

Degree Requirements

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      Required: SPC 1600
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
      Select MAC 1105 College Algebra
      Select CGS 2100CC Computer Fundamentals for Business
      3 hrs
   D. Social Foundations
      Select ECO 2013 Principles of Macroeconomics or
      ECO 2023 Principles of Microeconomics
      Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
   E. Science Foundation
      6 hrs
2. Common Program Prerequisites (3 hrs)
   ECO 2013* Principles of Macroeconomics
   ECO 2023* Principles of Microeconomics
   * See transfer notes for possible substitutions
3. Required Undergraduate Major Courses (15 hrs)
   ECO 3101 Intermediate Microeconomics
   ECO 3203 Intermediate Macroeconomics
   ECO 3401 Quantitative Business Tools I
   ECO 3411 Quantitative Business Tools II
   ECO 4451 Research Methods in Economics
   3 hrs
4. Restricted Elective (3 hrs)
   Select any 3000-4000 level economics elective
   other than those required
5. Courses shared BA/MS (15 hrs)
   ECO 6403 Mathematical Economics
   ECO 6116 Microeconomic Theory I
   ECO 6206 Macroeconomics Theory I
   ECO 6424 Econometrics I
   ECO 6XXX Economics Elective
   * 15 hours can count towards both BA and MS
6. Required Minor (18 hrs)
   Completion of a minor in one of the following:
   Computer Science, History, Mathematics, Statistics, Political Science, Psychology, or Sociology.
7. Program Exit Requirements
   A minimum grade of 3.0 is required for all graduate courses.
   A minimum GPA of 2.5 is required for all courses taken in the major and minor.
   Computer Competence is met by Research Methods course.
8. Foreign Language (0-8 hrs)
   Admission: Met by graduate requirement.
   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literature or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.
9. Electives (variable)
Accelerated Undergraduate-Graduate Programs

UNDERGRADUATE-GRADUATE PROGRAM (B.A. and M.A.)

College of Arts and Humanities
CNH 551, 407-823-2224
http://pegasus.cc.ucf.edu/~history

Graduate program E-mail: hisgrad@ucf.edu
Undergraduate program E-mail: history@ucf.edu

Chair: Edmund F. Kallina

Graduate Program Coordinator: Hong Zhang

Purpose of this degree - This program allows highly qualified undergraduate majors in history to begin taking graduate-level courses which will count towards their master’s degree while completing their baccalaureate degree program. Participation will enable completion of a B.A. and M.A. in five instead of six years for students enrolled in full-time course work.

Admission Requirements

- Students apply for admission to the accelerated program at the end of their junior year or after 12 hours of upper-level history course work
- A 3.5 GPA or better in history courses and a 3.25 overall GPA or better
- Graduate Record Exam (GRE) combined score of 1050 on both the verbal and quantitative sections of the exam and a score of at least 550 on the verbal section
- Completion of a graduate application, including an essay indicating reasons for desiring to complete the accelerated program, and three letters of recommendation from History Department faculty to be submitted to the History department
- Students will be formally admitted to the master’s program following receipt of the BA degree

Undergraduate Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a B (3.0) in each history course for it to be counted toward the major
- Co-op credit cannot be used in this major
- Students should consult with the departmental graduate coordinator
- Departmental residency requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF History Department. Students may substitute up to nine hours of 5000- or 6000- level courses to meet this requirement.
- Students must compile a portfolio of their written work in history completed inside and outside the classroom
- The B.A. will be awarded after completion of 36 hours of history classes
- The M.A. will be awarded upon completion of the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours (see history major requirements)

Graduate Degree Requirements

- The graduate requirements listed in the Graduate Catalog take precedence over those listed below.
- Students admitted to the accelerated program may take a 5000- level course the first semester of their senior year
- After successfully completing one 5000-level course, students will be eligible to take HIS 6159 (Historiography) and another 5000-level course or the 6000-level seminar following the 5000-level colloquium they have already completed
- Students may substitute these nine hours of graduate-level work for 9 hours of 3000- or 4000-level undergraduate courses
- Students need to pay fees at the graduate rate for the graduate courses they take
- Schedule for students enrolled full-time in the accelerated program:
  - Students complete nine hours of graduate-level courses their senior year
  - Students enroll in at least three hours of graduate-level course work the summer after they receive their B.A.
  - Students enroll in nine hours of graduate-level courses in both
Accelerated Undergraduate-Graduate Programs

Spring and fall semesters during their M.A. year
- Students complete the Capstone course, pass their preliminary exams, and fulfill their foreign language requirement by the end of their first MA year
- Students complete and defend a master’s thesis in six hours

Undergraduate Requirements

1. UCF General Education Program (36 hrs)
(See the History major in this catalog for track specific GEP requirements)

2. Common Program Prerequisites (0 hrs)
AMH 2010* U. S. History: 1492-1877
AMH 2020* U. S. History: 1877-Present
*See Transfer Notes for possible substitutes

3. Core Requirements (9 hrs)
HIS 4150 History & Historians 3 hrs
Select one sequence
EUH 2000, 2001 Western Civilization I & II 6 hrs
WOH 2012, 2022 World Civilization I & II

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
Students may substitute nine hours of 5000- or 6000-level course work for 3000- or 4000-level courses

5. Departmental Exit Requirements
- Maintain a minimum GPA of 3.5 in upper division required courses attempted
- Submit a portfolio during the semester of graduation. The portfolio will include representative samples of the student’s written work including, but not limited to, book critiques, in-class essay exams, and term papers
- Students must complete at least 18 of the required 36 history hours at UCF
- Computer competency met by completion of the major

6. Foreign Language Requirements 0-8 hrs
Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign language may be used to meet the requirement. Majors who are participating in the accelerated program should complete two years of a foreign language, preferably one functional in their area of historical interest. Students may take the department’s M.A. foreign language proficiency exam immediately following the completion of their foreign language course work.

7. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

8. University Minimum Exit Requirements - BA
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of summer credit (if applicable)

Total Semester Hours Required 120 hours

Overall History MA Requirements (36 hrs)*
* Nine hours of graduate work are earned in the senior year, in consultation with the history graduate coordinator.

1. Required Graduate Courses (12 hrs)
HIS 6159 Historiography 3 hrs
HIS 6905 Capstone Course 3 hrs
HIS 6971 Thesis 6 hrs

2. Courses in Area of Concentration (18 hrs)
 Assumes that nine additional hours of graduate courses were taken during the senior year.
(Eastern Hemisphere: African, Asian, European, or Middle Eastern; or Western Hemisphere: Caribbean, North American, or South American)

3. Outside Area of Concentration in History (6 hrs)

4. Foreign Language Requirement
Students will also be expected to demonstrate reading competency in one foreign language. The foreign language competency must be completed one semester prior to the thesis defense.

5. Examination Requirements
Each candidate for the M.A. in History must pass written examinations in two fields upon completion of regular course work and before beginning a thesis. These examinations must be taken and passed as part of the requirements for the Capstone course. Each student will also submit a thesis prospectus and preliminary bibliography, which the three members of the student’s thesis committee judge acceptable as the preliminary step to beginning the thesis.

Minimum Hours Required for M.A. - 36 Semester Hours (nine hours of which also count toward the B.A. degree)

Related Programs: Humanities
Related Minors: African-American Studies, American Studies, Asian Studies, History, Humanities, Judaic Studies, Latin American Area Studies, Middle Eastern Studies, Women’s Studies

Transfer Notes:
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- AMH 2010* & 2020*: may use any two introductory courses with an AMH, EUH, LAH, ASH, HIS or WOH prefix. However AMH 2010 and 2020 are prerequisites for all subsequent American History courses and will need to be taken for the major.

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LIBERAL STUDIES ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A./B.S. AND M.A./M.S.)

Office of Undergraduate Studies
Office of Liberal & Interdisciplinary Studies
http://liberalstudies.info

Liberal Studies Advising Team, 407-823-0144
E-mail: ls@mail.ucf.edu

The accelerated Program allows outstanding Liberal Studies students to earn a B.A. or B.S. degree and a M.A./M.S. degree in as few as five years. Students earn nine hours of graduate credit toward the M.A./M.S. while still an undergraduate, and then earn an additional twenty-four credits after earning the B.A. or B.S. degree.

Students majoring in any of the Liberal Studies tracks may apply for the program. This unique course of study requires close advising with program advisors, and approval by the M.A./M.S. in Liberal Studies program.

Admission Requirements
Acceptance to the university does not constitute admission to the accelerated program. An additional application to the program must be submitted and the student accepted. Contact the Liberal Studies program for application materials. All applicants must meet the following criteria:

- A GPA of 3.25 or higher at UCF in their last 30 upper level credit hours before applying in the second semester of their junior year.
- At least 75 credit hours earned by time of application and 30 upper level credit hours by the end of the application semester. Decision about admission to the program will depend partially on the grades earned in the application semester if the 30 upper level (or 75 overall) credits were not earned previously.
- A GRE score of 1050 or above in the verbal and quantitative sections combined (usually taken in the second semester of the junior year).

Undergraduate Degree Requirements
Undergraduate degree requirements vary by track, and each track’s requirements must be checked carefully in the appropriate Liberal Studies degree section.

- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Co-op or internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major
- Students must earn at least a “C” (2.0) in each restricted elective course
- Students must consult with a Liberal Studies advisor in order to prepare an application
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- No courses can count in more than one subject area or in a subject area and a minor
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree

Graduate Degree Requirements
The accelerated Program involves a minimum of 144 credits for completion of both the B.A./B.S. and M.A./M.S. degrees.

- The graduate requirements listed in the Graduate Catalog take precedence over those listed below.
- Students take nine graduate credit hours during their senior year which substitute for 3000- or 4000-level courses as part of the program requirements.
- Students pay graduate tuition and fees for the nine graduate credit hours.
- All requirements of the undergraduate and graduate degree programs must be fulfilled.
- Students should consult with the Liberal Studies advisor before applying for the program.
- Approval for course substitutions and for graduate courses must be given by the Liberal Studies advisors.
- The B.A./B.S. will be awarded after completing all the requirements for that degree in the undergraduate program.

1. UCF General Education Program (36 hrs)
(See Liberal Studies sections of the catalog for track-specific GEP requirements)

2. Common Program Prerequisites: none

3. Track Requirements
Students complete the requirements of the program based on the track option in Liberal Arts, Liberal Studies, Computer Information Technology, Environmental Studies, or Women’s Studies. See the description in the Liberal Studies sections for full information about each track.

Liberal Studies track

- Liberal Arts track
  - An approved course in critical thinking, ethics or methodologies (3 hrs)
  - Minor, or individualized minor 18 hrs
  - 2nd minor from College of Arts & Humanities or College of Science or Nine hours in each of two concentrations 18 hrs
  - One of the following (3 hrs):
    - IDS 4912 Directed Independent Research
    - IDS 4955 Study Abroad
    - IDS 4970H Thesis

Environmental Studies Track

- Core for Environmental Studies (11 hrs)
- Subject area: Environmental Studies Fundamentals 19 hrs
- Specialized Subject area 18 hrs

Women’s Studies Track

- Women’s Studies minor 18 hrs
- One Women’s Studies Subject area 18 hrs
- One Liberal Studies Subject area 18 hrs

4. Program Exit Requirements
Liberal Studies, Environmental Studies, and Women’s Studies tracks

- A grade of “C” or above (2.0) is required for each course taken in each of the subject areas
- Computer Competency met by CGS 1060C, STA 1060C, or other computer-related course, or departmental assessment in the minor and CIT track

- A grade of “C” or above (2.0) is required for each course taken in the minor and in the subject area.
- Computer Competency met by minor.
- Liberal Arts track
- Maintain a minimum GPA of 3.5 in all Liberal Arts Track courses

5. Foreign Language Requirements (0-8 hrs)
Admission-BA: Met by graduation requirement.
Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation-BA: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.
Graduation-BS: Proficiency equivalent to one semester of college
Accelerated Undergraduate-Graduate Programs

Institution in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.

Note: Students entering without having met the admission requirement must do so in order to graduate.

6. Electives (variable)
Select primarily from upper level courses, with departmental advisor's approval.

7. University Minimum Exit Requirements - B.A./B.S.

- 2.0 UCF GPA.
- 60 semester hours earned after CLEP awarded.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residence at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required - B.A./B.S. 120 hours
(including nine graduate credits when completing the 3+2 program).

Overall Liberal Studies M.A./M.S. Requirements (33 hrs)*

* Nine hours of graduate work are earned in the senior year, in consultation with the M.A./M.S. in Liberal Studies program director.
(See the Graduate Catalog for specific requirements)

Core courses (9 hrs)
IDS 6308 Ways of Knowing 3 hrs
IDS 6669 Interdisciplinary Approaches to Research 3 hrs
IDS 6351 Critical Thinking and Writing 3 hrs

Concentration
More than 40 concentrations and certificate affiliation programs are part of the M.A./M.S. in Liberal Studies degree. See the graduate catalog for additional information.

Options (6 hrs)
Thesis Option
Directed Readings 3 hrs
Thesis 3 hrs
Thesis defense
Non-thesis Option
Two approved graduate courses 6 hrs
Comprehensive exam

Total Hours Required - B.A./B.S. + M.A./M.S. 144 hours

Transfer Notes:
- Grades below “C” (2.0) are not accepted.
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

MOLECULAR BIOLOGY AND MICROBIOLOGY-
UCF/USF Accelerated Medical School Program (B.S.)
Burnett College of Biomedical Sciences
HPA2 335, 407-823-5932
http://www.biomed.ucf.edu
Dean: P.E. Kolattukudy

Students desiring admission to USF College of Medicine [USFCCOM] through the accelerated program will meet all USFCCOM admission requirements and obtain a B.S. in Molecular Biology and Microbiology after completion of the first year of the medical school curriculum.

Admission Requirements
Students must apply for this program through the Burnett Honors College prior to attending UCF. Eligibility requirements include FL residency, unweighted high school GPA of 3.7 and SAT score of 1300 or ACT of 29. More information about the admission process can be found at http://www.honors.ucf.edu and in catalog: Burnett Honors College: UCF/USF Accelerated Medical School Program.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a departmental advisor and the Burnett Honors College advisor
- Students who decelerate will not have grades below C- (1.75) in life science courses accepted

1. UCF General Education Program (36±3 hrs)
(Note: Certain courses must be selected in the GEP for this major, bringing total GEP hours to more than 36.)

A. Communication Foundations
Select ENC 1101H Honors Fr Composition I 9 hrs
Select ENC 1102H Honors Fr Composition II 9 hrs
Select SPC1016 H Honors Fund. Tech Presentations 9 hrs

B. Cultural Historical Foundations
Select MAC 231 4 hrs
Select STA 2023 3 hrs

C. Mathematical Foundations
Select MAC 231 4 hrs
Select STA 2023 3 hrs

D. Social Foundations
Select SLC 211C Selected Medical Careers 2 hrs

E. Science Foundations
Select BSC 2010C Biology I 4 hrs
Select BSC 2010C Biology II 4 hrs

2. Common Program Prerequisites (16 hrs)

BSC 2010C Biology I GEP
BSC 2011C Biology II GEP
CHM 2045C, 2046. Chemistry Fundamentals I, II, + Lab 2046L GEP, 4 hrs
CHM 2210, 2211, Organic Chemistry I, II, + Lab 2211L 8 hrs
MAC 2311 Calculus with Analytical Geometry I GEP

3. Core Requirements* (36 hrs)

Life Sciences

MCB 3020C General Microbiology 5 hrs
MCR 4912 Undergraduate Research 3 hrs
MCR 4941 Internship Clinical Experience 1 hr
PCB 4239 Molecular Immunology 3 hrs
PCB 3233L Immunology Lab 1 hr
PCB 3522, 4524 Molecular Biology I, II 6 hrs
RSC 3403C Quantitative Biological Methods 4 hrs
RSC 2111C Selected Medical Careers 2 hrs

Chemistry

CHM 2210, 2211, Organic Chemistry I, II, + Lab 2211L 8 hrs
MAC 2311 Calculus with Analytical Geometry I GEP

Math & Calculus and Statistics

MAC 2311 Calculus with Analytical Geometry I GEP
STA 2023 Statistical Methods I GEP

Physics**

PHY 2053C, 2054C College Physics I, II 8 hrs
or PHY 2048, PHY 2049C

4. Upper Division Restricted Electives (8 hrs)**

Five restricted electives satisfied by first year medical school courses.

PCB 3703C Human Physiology 4 hrs
ZOO 3733C Human Anatomy 4 hrs

5. Additional USF/UCF Requirements (7 hrs)

IDH 1921H Honors Symposium 1 hr
ENC3241/ENC3241H Writing for the Tech Professional 3 hrs
PHI 4633H or Honors Ethics and Biological Science 3 hrs
PAF 3753H Honors Ethical Issues in Health & Public Affairs 3 hrs

*Students must select at least two honors sections of upper division core requirements or restricted electives, and a total of four lower division courses in honors.

**Students decelerating to the 4 year B.S. program must take the following additional courses:

MCB 4414 Microbial Metabolism 3 hrs
4 additional Upper Division Restricted Electives listed under Molecular Biology and P20Microbiology B.S.(minimum) 11 hrs

5. Departmental Exit Requirements

To be eligible for a major in Molecular Biology and Microbiology:
- For decelerated program, the student must complete all coursework in the baccalaureate curriculum as shown, and, earn a GPA of
Accelerated Undergraduate-Graduate Programs

at least 2.0 for all coursework in the Core and Restricted Electives

- For accelerated program the degree is awarded after successful completion of first year USF Medical School program.

6. Electives:

None

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

A 2.0 UCF GPA

48 semester hours of upper division credit completed at UCF and/or USF

Total Semester Hours Required 120 hrs

For accelerated program, 14 credit hours will be from completion of USF College of Medicine first year courses.

Related Programs: Biology, Liberal Studies

Related Minors: Biology, Chemistry

Tentative Course Schedule for Entering Freshmen

Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
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<tbody>
<tr>
<td>ENC 1101H</td>
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<td>ENC 1102H</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2011H or SYG 2000</td>
<td>3</td>
<td>STA 2023</td>
<td>3</td>
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<tr>
<td>or ANT 2000D</td>
<td>3</td>
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<td>3</td>
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<td>MAC 2311</td>
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<tr>
<td>IDH 1921</td>
<td>1</td>
<td>SLS 2311C</td>
<td>2</td>
</tr>
</tbody>
</table>

Summer

| 8 hrs |

| PCB 3703C  | 4     |
| ZOO 3733C  | 4     |

Sophomore Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>16 hrs</th>
<th>Spring</th>
<th>16 hrs</th>
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</thead>
<tbody>
<tr>
<td>CHM 2110</td>
<td>3</td>
<td>CHM 2211</td>
<td>3</td>
</tr>
<tr>
<td>MCB3020C</td>
<td>5</td>
<td>CHM 2211L</td>
<td>2</td>
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<tr>
<td>PHI 4633H or PAF 3753H</td>
<td>3</td>
<td>PHY 2064C or PHY 2049,2049L</td>
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</tr>
<tr>
<td>PHY 2053C or PHY 2048,248L</td>
<td>4</td>
<td>BSC 3403C</td>
<td>4</td>
</tr>
<tr>
<td>MCB 4941</td>
<td>1</td>
<td>SPC 1016H</td>
<td>3</td>
</tr>
</tbody>
</table>

Summer

| 0 hrs |

| MCAT Prep Exam |

Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>16 hrs</th>
<th>Spring</th>
<th>16 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB 3522</td>
<td>3</td>
<td>PCB 4524</td>
<td>3</td>
</tr>
<tr>
<td>BCH 4053</td>
<td>3</td>
<td>PCB 4239, 3233L</td>
<td>4</td>
</tr>
<tr>
<td>ENC 3242J/ENC 3241H</td>
<td>3</td>
<td>Cultural/Historical</td>
<td>3</td>
</tr>
<tr>
<td>BSC 2011C</td>
<td>4</td>
<td>ECO 2013 or POS 2041</td>
<td>3</td>
</tr>
<tr>
<td>Cultural/Historical</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Summer

| 3 hrs |

| MCB 4912    | 3      |

NURSING ACCELERATED SECOND DEGREE C. BACHELOR OF SCIENCE IN NURSING (BSN) OPTION

(For individuals who are not Registered Nurses but who hold a baccalaureate or higher degree from a regionally accredited college or university)

College of Health and Public Affairs

HPA 220, 407-823-2744

E-mail: ucfnurse@mail.ucf.edu

Undergraduate Coordinator: Patricia Leli

Admission Requirements

Limited Access

Acceptance to the university does not constitute admission to the upper division nursing program.

Separate application to the limited access accelerated second degree bachelor of science in nursing (BSN) option must be made directly to the School of Nursing prior to January 15 of the year admission is sought

Application to the University must also be submitted by the program deadline

Students who have never attended the University of Central Florida as degree seeking undergraduate students must apply to the Undergraduate Admissions Office. Students should complete the regular undergraduate admission application.

Students who have attended the University of Central Florida as degree seeking undergraduate students should apply through the Registrar’s Office. These students complete the “Readmission Application” form

Students must receive a baccalaureate or higher degree from a regionally accredited college or university prior to the start of the program.

Three science prerequisite courses must be completed prior to application to the program.

All applicants must have a minimum overall GPA of 2.80, and complete all program prerequisite courses with a grade of "C" (2.0) or better

All applicants must complete an accelerated second degree program interview in association with a mandatory information session.

Graduates are eligible to apply to take the licensing examination for registered nurses (NCLEX). The program is accredited by the National League for Nursing and the Commission of Collegiate Nursing Education and approved by the Florida State Board of Nursing

Nursing Accelerated Second Degree Program begins in Summer Semester.

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog

Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements that cannot be answered by college advisors

A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the nursing major are required for continuation and graduation from the Nursing Program

UCF Residency requirement: 30 hours (if applicable)

Any variation from the stated prerequisite must be approved in writing by the School of Nursing. Petition forms are available in the School of Nursing office

1. UCF General Education Program

NA

2. Common Program Prerequisites (atus 31 hrs)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>PSY 2012 General Psychology</td>
</tr>
<tr>
<td>SYG 2000 Sociology</td>
</tr>
<tr>
<td>MCB 2004C Health Microbiology</td>
</tr>
<tr>
<td>CHM 1032L General Chemistry and lab*</td>
</tr>
<tr>
<td>ZOO 3733C Human Anatomy**</td>
</tr>
<tr>
<td>PCB 3703C Human Physiology**</td>
</tr>
<tr>
<td>STA 2041C or 2043 Principles of Statistics</td>
</tr>
<tr>
<td>SOW 3104 Assessing Human Development or</td>
</tr>
<tr>
<td>LRP 3944 Developmental Psychology</td>
</tr>
<tr>
<td>HUN 3011 Human Nutrition</td>
</tr>
<tr>
<td>* The first semester of a two semester general chemistry course does not meet requirement.</td>
</tr>
<tr>
<td>** May take Anatomy and Physiology sequence of six-eight total credits.</td>
</tr>
</tbody>
</table>

3. Core Requirements (53 hrs)

<table>
<thead>
<tr>
<th>Block</th>
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</thead>
<tbody>
<tr>
<td>NUR 3026L Thera Interv. For Health Prof.</td>
</tr>
<tr>
<td>NUR 3065 Health Assessment</td>
</tr>
<tr>
<td>NUR 3065L Health Assessment Lab</td>
</tr>
<tr>
<td>NUR 3167 Accel Nursing Research Sem</td>
</tr>
<tr>
<td>NUR 3225 Promoting Physical &amp; Mental Health</td>
</tr>
<tr>
<td>NUR 3235L Clin Pract in Prom Phys/mental Health</td>
</tr>
<tr>
<td>NUR 3237L Accelerated Clin Hth Fam and Comm</td>
</tr>
<tr>
<td>NUR 3673L Accelerated Clin Hth Fam and Comm</td>
</tr>
<tr>
<td>NUR 3825 Role of the Professional Nurse</td>
</tr>
<tr>
<td>NUR 3128 Pathophysiology &amp; Pharmacology</td>
</tr>
</tbody>
</table>
Accelerated Undergraduate-Graduate Programs

NUR 4525  Nursing Intervention in Mental Illness  2 hrs
NUR 4525L  Clinical Practice w/ Mentally Ill Client  1 hr
NUR 4639  Accel Comm Continuum  2 hrs
NUR 4639L  Clinical Pract in Comm.-Orient Nrsg  2 hrs
NUR 4745  Nursing Care of Clients w/ Acute Ill  4 hrs
NUR 4745L  Clinical Practice in Acute Illness  4 hrs
NUR 4829  Accel Trans Leader  3 hrs
NUR 4945L  Directed Nursing Practice  4 hrs
NUR 4XXX  Nursing Elective  3 hrs **

* Students without a research course on transcript must take NUR 3165
** Students may petition to waive elective requirement. Some Directed Nursing Practice (NUR 4945L) placements require an elective as a concurrent course.

Any variation from the above must be approved by the School of Nursing.

4. Upper Division Restricted Electives (3 hrs)
Nursing Elective:
May not be required. However, some NUR 4945L placements do require an elective be taken concurrently.

5. Department Continuation and Exit Requirements
Completion of all courses in major with a grade of “C” (2.0) or better
■ UCF GPA of 2.5 or above
■ School of Nursing GPA of 2.5 or above

6. Electives None

7. Foreign Language requirements
Admission: none
Graduation: none

8. University Minimum Exit Requirements
■ A 2.0 UCF GPA
■ 48 semester hours of upper division credit completed
■ 30 of the last 36 hours of course work must be completed in residency at UCF

Total Semester Hours Required for 2nd Degree BSN  53 hrs

Related Programs
Health Services Administration, Social Work, all health programs

Related Minors
Aging Studies, Psychology, Health Sciences, Health Services Administration

Transfer Notes:
Examples of Community College Equivalent Courses for

Prerequisites
General Psychology (PSY 2012) or any General Psychology course  3
General Sociology (SYG 2000) or any Intro to Sociology course  3
Statistics (STA 2044 or 2233) or any Statistics course  3
General Chemistry (CHM 1032 or any other comprehensive chemistry course w/lab)*
Human Anatomy and Physiology I & II w/lab (BSC 2083/2084) or (BSC X085/X086)
General Microbiology (MCB 2020C) (MCB X010C) w/lab or any Microbiology course w/lab
Developmental Psychology (DEP 2004) or any Human Growth & Development Across Life Span course
Human Nutrition with Therapeutic Nutrition course  3

* The first semester of a two semester general chemistry course does not meet requirement.

Note: A grade of “C” (2.0) or better is required in all prerequisite courses.

Honors
University Honors and Honors in the Major Available

Tentative Course Schedule

First Semester
Summer 13 hrs  2
NUR 3625  2
Fall 14 hrs  5
NUR 3128  5

Spring 15 hrs  4
NUR 4745  4
NUR 4745L  4
NUR 4525  2
NUR 4525L  2
NUR 4525L  4
NUR 3167 or  1
NUR 3XXX Elective**  3

Other
* Students without a research course on transcript must take NUR 3165
** Students may petition to waive elective requirements. Some Directed Nursing Practice (NUR 4945L) placements require an elective as a concurrent course.

NURSING (B.S.N.)

D. RN TO MSN OPTION

College of Health and Public Affairs
HPA 220, 407-823-2744
http://www.cohpa.ucf.edu/nursing/

Program Coordinator: Linda Hennig

Accelerated program for students who are licensed as an RN and meet general education requirements, prerequisites, and required GPA.

Available for all tracks in the graduate program. Nursing Leadership and Management, Family Nurse Practitioner, Adult Nurse Practitioner, Pediatric Nurse Practitioner, Clinical Nurse Leader, Nurse Educator, and Clinical Nurse Specialist. (See UCF Graduate Catalog for current offerings.) Up to 15 credit hours may be applied toward meeting requirements of both BSN and MSN programs.

Admission Requirements - Limited Access

Acceptance to the university does not constitute admission to the RN-MSN program. Separate application to this limited access program must be made. Contact the School of Nursing or visit our website for application materials. All applicants must meet the following criteria:

■ Graduate of a state-approved or accredited associate degree or diploma nursing program
■ Licensure as an RN
■ Completion of UCF general education requirements or an AA degree from a Florida community college, including CLAST (or exempt)
■ Completion of prerequisites for the RN-BSN nursing program
■ Minimum cumulative GPA of 3.0.

A minimum combined GRE score of 900 on the verbal/quantitative exams.
■ Admitted to UCF undergraduate program
■ Three professional references
■ Resume
■ Letter of Intent

Interim Requirements:
Maintain a Nursing GPA of 3.0

Admission Requirements for Graduate Nursing Phase: (To be met during the semester the BSN is awarded)
■ Application to Graduate Studies
■ Completion of all UCF School of Nursing coursework to date with a minimum GPA of 3.0
■ An updated resume

Degree Requirements
■ Students who change degree programs and select this major must adopt the most current catalog
■ Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education requirements and the Common Program Prerequisites
■ Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
■ The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities
UCF Residency Requirement: 30 hours

The BSN is awarded after completion of 60 hours including specified program requirements

The MSN is awarded after program completion

The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

BSN Curriculum Changes for the RN to MSN Option:

An individualized plan of study is developed for each student admitted to the RN to MSN option.

Students take NUR 4836, Professional Development Seminar, to meet the requirements of NUR 4084, Transitional Concepts of Nursing II and NUR 3165, Critical Inquiry.

Students take NGR 5800, Nursing Theory

Students pursuing the MSN in the Nursing Leadership and Management Track may take the following courses:
- NUR 4838L, Directed Practice in Nursing Administration for NUR 4812, Directed Nursing Practice
- NGR 5720, Organizational Dynamics for NUR 4827, Leadership and Management Principles
- NGR 5871, Health Care Informatics
- NGR/HSA XXX, Graduate elective in area of concentration
  (e.g., nursing, health services administration for nursing elective)

Students pursuing the MSN in the Nurse Practitioner or Clinical Nurse Specialist tracks may take the following courses:
- NGR 5003 and NGR 5004L, Advanced Health Assessment, Pathophysiology and Diagnostic Reasoning (for NUR 4812C)
- NGR 5141, Pathophysiology
- NGR XXXX, Graduate elective in area of concentration

1. UCF General Education Program (36 hrs)

A. Communication Foundations
   1. ENC 1101 & ENC 1102
   2. Select SPC 1600C 9 hrs

B. Cultural Historical Foundations
   1. Select MAC 1105 9 hrs
   2. Select STA 2014C

C. Mathematical Foundations
   1. Select SYG 2000 or PSY 2012 6 hrs
   2. Select one: ECO 2013, or ECO 2023, or POS 2041

E. Science Foundations:
   Select BSC 2010C 6 hrs
   Select CHM 1032

2. Common Program Prerequisites 21 hrs

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>PSY 212 General Psychology**</td>
<td>3 hrs</td>
<td>GEP</td>
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<td>SYG 2000 Sociology**</td>
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<tr>
<td>MCB 2004C Health Microbiology</td>
<td>4 hrs</td>
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<tr>
<td>CHM 1032L General Chemistry</td>
<td>4 hrs</td>
<td>lab** GEP</td>
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<td>3 hrs</td>
<td>or</td>
</tr>
<tr>
<td>DEP 2004 Developmental Psychology</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>HUN 3011 Human Nutrition</td>
<td>3 hrs</td>
<td></td>
</tr>
</tbody>
</table>

*May take Anatomy and Physiology sequence of six-eight total credits.

**Also meets General Education Requirements.

Applicants should see a UCF Nursing Advisor for possible course substitutions.

3. Core Requirements

Courses vary by specific program tracks. Consult program advisor.

4. Upper Division Restricted Elective none

5. Departmental Exit Requirements

Completion of all courses in major with a grade of “B” (3.0) or better
- UCF GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

6. Electives none

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam).

Graduation: none

8. University Minimum Exit Requirements

(For students exiting after earning BSN.)

- A 2.0 UCF GPA and 2.5 Nursing Major GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required BSN 120 hours

Related Programs: Health Services Administration, all health programs

Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

4945L) placements require an elective as a concurrent course.
ARTICULATED A.S. TO B.S. PROGRAMS

The University offers nine specialized degree programs for students who have graduated from a Florida Community College with an A.S. degree in one of the following nine programs: Applied Science, Criminal Justice, Electrical Engineering Technology, Business Administration, Hospitality Management, Computer Engineering Technology - Network, Specialization, Liberal Studies, Nursing, and Radiologic Technology. Students who wish to transfer to UCF under the provisions of the statewide articulated A.S. to B.S. programs must meet specific criteria:

1. Students must graduate with the specific program and new A.S. in Fall 2000 or later, (Fall 2003 or later for Criminal Justice or Computer Engineering Technology) from a Florida public community college.

2. Students who have graduated with an A.S. prior to Fall 2000 are not eligible to participate in these programs. The new community college A.S. programs have slightly different requirements. Students who do not have the new A.S. should complete their general education at the community college and then transfer into the appropriate non-A.S. to B.S. program at UCF.

3. Students may only transfer from the specific major to the specific major; e.g., Business Administration to General Business. One cannot, for example, transfer an A.S. in Business Administration to a B.S. in Accounting under this agreement.

4. Students who wish to transfer to UCF under the provisions of the statewide articulated A.S. to B.S. programs must meet specific criteria:

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs

Applicants who qualify for this program are not guaranteed admission to the limited access programs in Nursing and Radiologic Sciences or programs that require specific grades in particular courses for admission.

Students should consult with their community college advisor when pursuing one of these programs to make sure they have met all of the appropriate requirements for the degree, including the necessary General Education courses and common program prerequisites. Students are still required to complete all of the components of the Gordon Rule and CLAST prior to graduation from UCF. Students may be required to complete all common program prerequisites for these majors prior to enrollment in upper division course work. The total hours required for the General Education Program (GEP) will be 36 hours, excluding any necessary remediation.

Students admitted into these programs must meet the requirements as stated in the programs listed below. Students who change majors out of these programs must adopt the requirements of the most current catalog for the selected major, including the required UCF General Education Program.

Questions concerning the requirements of these majors should be referred to the appropriate academic department or the Director of Transfer Services, (407) 823-2231.

APPLIED SCIENCE (B.A.S.)

A.S. to B.A.S.

(Completion Program for individuals who have a statewide articulated A.S. from a Florida public community college)

Office of Undergraduate Studies
Regional Campuses Administrative Offices
12201 Research Parkway, Suite 101
407-823-4547
http://www.regionalcampuses.ucf.edu/
Program Advisor: Judy Boyte; 407-317-7816

The Bachelor of Applied Science provides baccalaureate educational opportunities with a curriculum designed to develop competencies in organizational skills, management, and communication. The program is only available on UCF's Cocoa, Daytona Beach, MetroWest and Sanford/Lake Mary campuses. Emphasis will also be placed on the development of skills in critical thinking, problem solving, and ethical decision-making.

Students are allowed to take lower level, general education classes at the campus in Orlando if necessary. If students wish to take an upper division course at the Orlando campus they should see a Regional Campuses' academic advisor. This will be allowed only on a very limited basis and under highly extenuating circumstances. If you have any questions regarding this policy or procedure, please contact the Director of Regional Campuses Advising at 407-823-1509.

Admission Requirements

Completion of an A.S. degree from a Florida public community college which included at least 15 hours of transferable general education courses. Other applicants will be given individual review.

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog Students should maintain contact with an academic advisor

1. UCF General Education Program (36 hrs)

Students will take General Education courses as needed to complete the university’s 36 credit hour General Education requirement:

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs

D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites

3. Required Core

3. Required Core (9 hrs)

3. Required Core

BUL 3130 Legal & Ethical Environment for Business 3 hrs
MAN 3025 Management of Organizations 3 hrs
ENC 3241 Writing for the Technical Professional 3 hrs
ENC 3250 Professional Writing 3 hrs

4. Area of Concentration (Choose one)

A. Supervision and Administration Track: (18 hrs)

INF 3004 Industrial/Organizational Psychology 3 hrs
ISM 3011 Management Information Systems 3 hrs
MAR 3023 Marketing 3 hrs
GEB 3814 Essentials of Human Resource Management for Non-business majors 2 hrs
GEB 3815 Employee Training for Non-business Majors 3 hrs
ACG 3082 Accounting for Non-business majors 3 hrs

B. Industrial Operations Track: (21 hrs)

ETI 3116 Applied Quality Assurance 3 hrs
ETI 3671 Technical Economics 3 hrs
ETI 4186 Applied Reliability 3 hrs
ETI 4635 Technical Administration 3 hrs
ETI 4640 Operations Management for Technologists 3 hrs
ETI 4448 Applied Project Management 3 hrs
CET 3010 Introduction to Information Technology 3 hrs

NOTE: At the time the catalog went to press, tracks in Legal Studies, Criminal Justice and Hospitality Management were under review. Consult the program office for additional details.

5. Modern Language Requirement (0-8 hrs)

Admission Requirements

Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None
Articulated A.S. To B.S. Programs

University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 42 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of summer credit (if applicable)

Total Semester Hours Required 120 hrs

Transfer Notes.
- UCF will allow students to complete required UCF General Education courses at the community college while they are enrolled and working on their degree at UCF; however, students cannot be transient in their last 30 hours at UCF.
- Courses taken at community colleges do not substitute for upper division courses.
- All students seeking a baccalaureate degree from a State of Florida Institution are required to satisfy the CLAST requirement. Transfer students with more than 60 semester hours who have not taken the CLAST or who have not met the CLAST requirement may be admitted, but they must take the CLAST exam during their first semester at UCF.
- Orientation and advising are two of the most valuable tools that a student can use when transferring to UCF. Students should take advantage of both

CRIMINAL JUSTICE (B.S.)
A.S. to B.S. TRACK
(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Health and Public Affairs
HPA1 311 407-823-2603
http://www.coehpa.ucf.edu/crim.jus/
Undergraduate Program Coordinator: Dr. Mary Ann Eastep
e-mail: cjadvise@mail.ucf.edu

Admission Requirements
Completion of a Statewide Articulated A.S. in Criminal Justice from a Florida public community college which is composed of 64 hours of course work, including at least 18 hours of transferable general education courses

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- The courses designated in section 1 below may be taken at a Florida Community College
- Students must earn a minimum 2.0 GPA in the core requirements and the restricted electives.

1. UCF General Education Program (36 hrs)
Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:
- Communication Foundations
- Cultural Historical Foundations
- Mathematical Foundations
- Social Foundations
- Science Foundations

2. Common Program Prerequisites
Completed as part of the approved A.S. program

3. Core Requirements (18 hrs)
- CCJ 3024 Criminal Justice System 3 hrs
- CCJ 3014 Crime in America 3 hrs
- CJL 3510 Prosecution and Adjudication 3 hrs
- CJC 3010 Corrections and Penology 3 hrs
- CJE 4014 Police and Society 3 hrs
- CCJ 4701 Research Methods in Criminal Justice 3 hrs

4. Upper Division Restricted Electives (30 hrs)
- 27 additional semester hours of upper division CCJ course work.
- Seniors can satisfy up to six hours of this requirement with internship and up to six hours with directed independent study; however, the combination of these non-class options shall not exceed nine hours. Program standards must be met to be eligible for either internships or independent study credit.
- 3 additional semester hours of supporting courses to be selected with and approved by the student's advisor. These courses may vary from student to student depending upon individual needs or objectives, but include selected courses from public administration, legal studies, sociology, statistics, and psychology.

5. Upper Division Unrestricted Electives none

6. Departmental Exit Requirements (130 hrs)
Students must take a minimum of 36 hours from the department to obtain the UCF degree in Criminal Justice.

7. Foreign Language Requirements
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 130 hours

Related Programs: Legal Studies
Related Minors: Legal Studies, Public Administration, Psychology.

ELECTRICAL ENGINEERING TECHNOLOGY (BSEET)
A.S. to B.S.E.E.T. CONCENTRATION
(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Engineering and Computer Science
Engineering Technology (ENT) Department
ENGR 207
Coordinator: Alireza Rahrooh
407-823-4749, Fax: 407-823-4746
E-mail: rahrooh@pegasus.cc.ucf.edu
Web Address: http://www.ent.ucf.edu

Admission Requirements
Completion of a Statewide Articulated A.S. in Electrical Engineering Technology from a Florida public community college which is composed of 64 hours of course work, including at least 22 hours of transferable General Education courses.

Degree Requirements
- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and
### 1. UCF General Education Program (14 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>4 hrs</td>
</tr>
<tr>
<td>1. Select MAC 2311 or MAC 2253</td>
<td></td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>(0 hrs)</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>3-4</td>
</tr>
<tr>
<td>1. Select PHY 2048 or PHY 2053C</td>
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**Note:** See PHY component under Section 2.

### 2. Common Program Prerequisites (CPP) (4-5 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
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<td>(C or better grades are required in all courses)</td>
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</tr>
<tr>
<td>MAC 2311 or MAC 2253</td>
<td></td>
</tr>
<tr>
<td>(or equivalent)</td>
<td></td>
</tr>
<tr>
<td>PHY 2048 and PHY 2048L</td>
<td>1 hr, GEP</td>
</tr>
<tr>
<td>or PHY 2053C</td>
<td>GEP</td>
</tr>
</tbody>
</table>

### 3. Engineering Technology Core Requirements (18 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>(C or better grades are required in all courses.)</td>
<td></td>
</tr>
<tr>
<td>EET 3541 Applied Mechanics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EET 3651C Computer Applications</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 3671 Technical Economic Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EET 4635 Technology Administration</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 3116 Engineering Quality Assurance</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 3241 Technical Report Writing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>BSC 1005L or BSC 1050L</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

### 4. Upper Level Required Courses (21 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>(C or better grades are required in all courses)</td>
<td></td>
</tr>
<tr>
<td>CET 3198C Digital Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 3503 Microcomputer Technology I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4134C Microprocessor Electronics II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EET 3716 Network Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EET 4159C Linear Integrated Circuits</td>
<td></td>
</tr>
<tr>
<td>EET 4548 Power Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EET 4732C Feedback Control Systems</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### 5. Upper Level Technical Electives (6 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>(C or better grades are required in all courses)</td>
<td></td>
</tr>
<tr>
<td>Select six hours from the following:</td>
<td></td>
</tr>
<tr>
<td>CET 3144C Applied Microprocessor Technology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4138C Digital Programmable Devices</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4333 Computer Organization &amp; Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EET 4329C Communication Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EET 4359C Digital Communications</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

### 6. Departmental Exit Requirement (3 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 4950C Senior Design Project</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

A grade of 2.0 or better is required in all prerequisites.

### 7. Foreign Language Requirements (0-8 hrs)

**Admission:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** none

### 8. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits are permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

**Total Semester Hours Required:** 134 hrs

**Related Programs:** Electrical Engineering Technology (Electrical Systems Concentration).

**Related Minors:** none

### Transfer Notes:

- Students transferring from any Florida public institution with an A.A. or with the General Education Program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- ENT Departmental Residency Requirements consist of at least 33 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.

**PHY 2048/L can substitute for PHY 2053C.**

### Junior Year

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/14 hrs MAC 2253 Applied Calc I or</td>
<td>3/4</td>
</tr>
<tr>
<td>MAC 2311 Calc w/Anl Geom I</td>
<td></td>
</tr>
<tr>
<td>EET 3614 Tech Economic Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 3198C Digital Systems</td>
<td></td>
</tr>
<tr>
<td>SPC 1600 Oral Communications</td>
<td></td>
</tr>
<tr>
<td>PHY 2053C/2048 Physics I</td>
<td>4</td>
</tr>
<tr>
<td>EET 4732C Feedback Control Sys</td>
<td></td>
</tr>
</tbody>
</table>

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 hrs MAC 2624/2049 w/lab</td>
<td></td>
</tr>
<tr>
<td>EET 3541 Applied Mechanics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EET 4138C Linear Int Cir</td>
<td>3</td>
</tr>
<tr>
<td>CET 3503 Microcomputer Tech I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EET 4950C Senior Design Project</td>
<td></td>
</tr>
<tr>
<td>PHY 2053C/2048 Physics I</td>
<td>4</td>
</tr>
<tr>
<td>EET 3716 Network Analysis</td>
<td></td>
</tr>
</tbody>
</table>

### Summer

**10 hrs**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETI 3116 Appl Eng Quality Assur</td>
<td>3 hrs</td>
</tr>
<tr>
<td>BSC 1005L or BSC 1050L Biology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>Cultural/Historical Foundation</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### Senior Year

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>13 hrs EET 4548 Power Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EET 4138C Linear Int Cir</td>
<td>3</td>
</tr>
<tr>
<td>CET 3503 Microcomputer Tech I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAC 2312, 2254 or MAP 3401</td>
<td>4</td>
</tr>
<tr>
<td>EST 4227 Photonics Sensor</td>
<td></td>
</tr>
</tbody>
</table>

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 hrs MAC 2253 Applied Calc I or</td>
<td></td>
</tr>
<tr>
<td>MAC 2311 Calc w/Anl Geom I</td>
<td></td>
</tr>
<tr>
<td>EET 3614 Tech Economic Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 3198C Digital Systems</td>
<td></td>
</tr>
<tr>
<td>SPC 1600 Oral Communications</td>
<td></td>
</tr>
<tr>
<td>PHY 2053C/2048 Physics I</td>
<td>4</td>
</tr>
<tr>
<td>EET 3716 Network Analysis</td>
<td></td>
</tr>
</tbody>
</table>

### 3. Required for All Business Majors (30 hrs)

First or subsequent semester in the College of Business Administration:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB 3031</td>
<td>5 hrs</td>
</tr>
<tr>
<td>GEB 3356</td>
<td></td>
</tr>
<tr>
<td>BUL 3130</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ECO 3411</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIN 3403</td>
<td></td>
</tr>
<tr>
<td>MAN 3025 Management of Organizations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ISM 3011</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAR 3023</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Last Semester:</td>
<td></td>
</tr>
<tr>
<td>MAN 4720 Strategic Management</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### 4. Special college and/or department requirements:

- General Business (B.S.B.A.)
- A.S. to B.S. TRACK

This program is designed for students who have a statewide articulated A.S. in business administration from a Florida public community college.

**College of Business Administration**

BA 240, 407-823-2184

**http://www.bus.ucf.edu**

**Faculty Advisor:** B. Moore, BA 325, 407-823-5256

**Admission Requirements**

Completion of a Statewide Articulated A.S. in Business Administration from a Florida public community college which is composed of 64 hours of course work, including at least 24 hours of transferable General Education courses.

### Degree Requirements

- 1. UCF General Education Program (12 hrs)
  - Students will complete 12 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and may come from the following areas:
    - A. Communication Foundations - Required SPC 1600
    - B. Cultural and Historical Foundations
    - C. Mathematical Foundations
    - D. Social Foundations
    - E. Science Foundation

- 2. Common Program Prerequisites
  - Must be completed with a "C" (2.0) or better.
    - ACG 2021 Principles of Financial Accounting
    - ACG 2071 Principles of Managerial Accounting
    - ECO 2013 Macroeconomics
    - ECO 2023 Microeconomics
    - MAC 2233 Concepts of Calculus
    - STA 2023 Statistical Methods
    - CGS 2100CC Computer Fundamentals for Business

- 3. Required for All Business Majors (30 hrs)
  - First or subsequent semester in the College of Business Administration:
    - GEB 3031, Cornerstone (Required in 1st or 2nd semester) 5 hrs
    - GEB 3356 Introduction to International Business 3 hrs
    - BUL 3130 Legal & Ethical Environments of Business 3 hrs
    - ECO 3411 Quantitative Business Tools II 3 hrs
    - FIN 3403 Business Finance 3 hrs
    - MAN 3025 Management of Organizations 3 hrs
    - ISM 3011 Essentials of Management Information Systems 3 hrs
    - MAR 3023 Marketing 3 hrs
  - Last Semester:
    - MAN 4720 Strategic Management 3 hrs

- 4. Special college and/or department requirements:
Articulated A.S. To B.S. Programs

- Students who change degree programs and select another major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisite class.
- Students wanting to major in General Business must apply for admission to the major.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students must have at least a 2.0 GPA in the major and COB. Students majoring in General Business must earn a grade of "C" (2.0) or better in each course applied toward the major.

5. Second Level Core (5 courses):
Students must take one course from each of the following areas: Accounting (must take ACG 3131), Economics (must take ECP 4703), Finance, Management, and Marketing. These five courses are restricted to the courses listed below:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 3131</td>
<td>Intermediate Accounting I</td>
</tr>
<tr>
<td>ECP 4703</td>
<td>Managerial Economics</td>
</tr>
<tr>
<td>FIN 3303</td>
<td>Financial Markets</td>
</tr>
<tr>
<td>FIN 3414</td>
<td>Intermediate Corporate Finance</td>
</tr>
<tr>
<td>FIN 3504</td>
<td>Investment Analysis</td>
</tr>
<tr>
<td>MAN 4240</td>
<td>Organizations: Theory and Behavior</td>
</tr>
<tr>
<td>MAN 3301</td>
<td>Management of Human Resources</td>
</tr>
<tr>
<td>MAR 4156</td>
<td>International Marketing</td>
</tr>
<tr>
<td>MAR 4841</td>
<td>Service Marketing</td>
</tr>
<tr>
<td>MAR 3613</td>
<td>Marketing Research and Analysis</td>
</tr>
<tr>
<td>MAR 3403</td>
<td>Sales Force Management</td>
</tr>
</tbody>
</table>

6. 4000 Level Requirement:
At least two of the second level courses must be at the 4000 level.

7. A.S. Transfer Classes
Twelve credit hours taken under the A.S. to B.S. agreement will be counted toward the degree.

8. Foreign Language Requirements (0-8 hrs)

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

10. Electives*** (variable)
Must be outside the College of Business

Total Semester Hours Required 132 hours

Community College Transfer Notes
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a computer fundamentals for business class. At UCF, students who have completed the calculus and statistics class will be waived from Business Quantitative Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisite class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

**General electives as required to reach 132 semester hours.

HOSPITALITY MANAGEMENT (B.S.)
A.S. to B.S. TRACK
(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)
Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-903-8000
http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam

Admission Requirements
Completion of a Statewide Articulated A.S. in Hospitality Management from a Florida public community college which is composed of 64 hours of course work, including at least 18 hours of transferable general education courses.

Degree Requirements
1. UCF General Education Program (GEP) (18 hrs)
   Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:
   - A. Communication Foundations
   - B. Cultural and Historical Foundations
   - C. Mathematical Foundations
   - D. Social Foundations
   - E. Science Foundation

2. Common Program Prerequisites (3 hrs)
   HFT 1000 Introduction to Hospitality Management
   3 hrs

3. Hospitality Management Core (27 hrs)
   - CGS 2100CC Computer Fundamentals of Business
   - or STA 2023 Statistical Methods I (GEP)
   - or ECO 2013 Macroeconomics
   - or ECO 2023 Microeconomics (GEP)
   - MAC 1105 College Algebra (GEP)
   - HFT 3840 Guest Services Management
   - HFT 3431 Hospitality Managerial Accounting
   - HFT 4295 Leadership and Strg Mgmt in Hospitality Industry
   - HFT 4286 Hospitality Communications
   - HFT 4462 Hospitality Industry Finance
   - HFT 4941 Internship II
   - HFT 4944 Internship III
   - HFT 3933 Distinguished Lectures in Hosp. Mgt.
   3 hrs
   1 hr
   1 hr
   1 hr

Select 3 of the following 4 courses to complete the core
   - HFT 3700 Tourism Management
   - HFT 3261 Restaurant Management
   - HFT 3273 Principles of Resort Time Sharing
   - HFT 4755 Theme Park and Attraction Mgmt
   3 hrs
   3 hrs
   3 hrs
   3 hrs

4. Special School Requirements:
   - Grades of "C"- (1.75) or below do not transfer into the Hospitality Management core or restricted electives.
   - It is the responsibility of the student to take whatever steps are necessary to determine if they have been officially dropped from a course. This does not remove the student’s responsibility for dropping courses they do not intend to complete.
   - Final exams will be given during Exam Week only.

5. Restricted Electives (15 hrs)
Students must take 15 credit hours of Hospitality Management courses from the following list for the Generalist track. Alternatively, students may choose one of the six specialized career tracks as outlined below.

**A. Generalist Track**

Choose five advanced courses from the following list:

- **HFT 3313** Hospitality Physical Plant Management 3 hrs
- **HFT 4343** Hospitality Facilities Planning & Design 3 hrs
- **HFT 4298** Hospitality Business Consulting 3 hrs
- **HFT 4473** Hotel Development Analysis 3 hrs
- **HFT 3785** Management of Gaming Enterprises 3 hrs
- **HFT 3807** Multi-Unit Food Service Organizations 3 hrs
- **HFT 4861** Beverage Management 3 hrs
- **FSS 3224** Supply and Procurement Management 3 hrs
- **FSS 4135** Corporate Contract & Managed Services Org. 3 hrs
- **FSS 3233** Intermediate Techniques of Food Production 3 hrs
- **FSS 4286C** Catering and Banquet Organization 3 hrs
- **HFT 4753** Convention & Conference Services 3 hrs
- **HFT 4754** Exhibit & Trade Show Operations 3 hrs
- **HFT 4735** Tourism Geography 3 hrs
- **HFT 4722** Travel Agency Management 3 hrs
- **HFT 4762** Current Practices in the Airline Industry 3 hrs
- **HFT 4275** Development of Vacation Ownership Resorts 3 hrs
- **HFT 3741** Meeting Management 3 hrs
- **HFT 3757** Event Management 3 hrs
- **HFT 4266** Restaurant Brand Management 3 hrs
- **HFT 4268** Case Studies in Restaurant Management 3 hrs
- **HFT 4844** Sanitation Mgmt in Foodservice Industry 3 hrs
- **HFT 4274** Vacation Ownership Resort Management 3 hrs
- **HFT 4522** Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
- **HFT 4442** Vacation Ownership Resort Reservations/Data Base Systems 3 hrs
- **HFT 4759** Product Development in Theme Parks and Attractions 3 hrs
- **HFT 4758** Contemporary Issues in the Theme Park and Attraction Industry 3 hrs
- **HFT 4532** Managing the Employee Experience in Theme Parks and Attractions Industry 3 hrs
- **HFT 4269** Case Studies in Multi-Unit Restaurant Mgmt 3 hrs
- **HFT 4453** Food, Beverage and Labor Cost Controls 3 hrs
- **HFT 4432** Hospitality Industry Auditing 3 hrs
- **HFT 4413** Technology Applications for Management 3 hrs
- **HFT 4253** Hotel Operations 3 hrs
- **FSS 3008** Culture and Cuisine 3 hrs
- **HFT 3784** Amusement Technology 3 hrs
- **HFT 3802** Catering Management 3 hrs
- **HFT 3710** Cruise Line Operations and Management 3 hrs
- **HFT 3574** Food Service Marketing Advertising and Promotion Management 3 hrs
- **HFT 3654** Franchising in the Restaurant Management 3 hrs
- **HFT 3610** Law and Restaurant Management 3 hrs
- **HFT 3374** Multi Media Applications in Exhibitions 3 hrs
- **HFT 3834** Topics in Restaurant and Foodservice Mgt 3 hrs
- **HFT 4375** Advanced Trade Show Management 3 hrs
- **HFT 4864** Anheuser Busch Seminar in Quality Brewing and Fine Beer 3 hrs
- **HFT 4425** Financial Analysis for Restaurant Managers 3 hrs
- **HFT 4786** Managing the Guest Experience in Theme Park and Attractions 3 hrs
- **HFT 4787** Operational Issues in the Theme Park and Attraction Industry 3 hrs
- **HFT 4645** Restaurant Real Estate, Site Selection and Modeling 3 hrs
- **HFT 4277** Yacht, Country, and City Club Management 3 hrs
- **HFT 3285** International Restaurant Corporate Mgmt 3 hrs
- **HFT 4311** Convention and Conference Sales 3 hrs
- **HFT 3515** Reservations Sales & Marketing 3 hrs
- **HFT 4284** Training and Performance in the Food Svc Ind 3 hrs
- **HFT 4795** Entertainment Arts and Events 3 hrs
- **HFT 4866C** Exploring Wines of the World 3 hrs
- **HFT 3688** History of Wine and Culture 3 hrs
- **HFT 4894** International Gastronomy 3 hrs
- **HFT 3512** Event Promotion 3 hrs
- **HFT 3780** Hospitality and Event Risk Management 3 hrs
- **HFT 3785** Management of Gaming Enterprises 3 hrs
- **HFT 3792** Event Design and Production 3 hrs
- **HFT 3798** Fairs and Festivals 3 hrs
- **HFT 4255** Advanced Hotel Development 3 hrs
- **HFT 4298** Hospitality Business Consulting 3 hrs
- **HFT 4561** Destination Marketing 3 hrs
- **HFT 4791** Event Management II 3 hrs
- **HFT 4796** International Events 3 hrs
- **HFT 4865** Advanced Wine Management 3 hrs

**B. Event Management Track – Choose 5 Courses**

- **HFT 4753** Convention and Conferences Services 3 hrs
- **HFT 4754** Exhibit and Trade Show Operations 3 hrs
- **HFT 3802** Catering Management 3 hrs
- **HFT 3741** Meeting Management 3 hrs
- **HFT 3757** Event Management 3 hrs
- **HFT 3511** Convention and Conference Sales 3 hrs
- **HFT 4795** Entertainment Arts and Events 3 hrs
- **HFT 4375** Advanced Trade Show Management 3 hrs

**C. Vacation Ownership Resort Management Track**

- **HFT 4275** Development of Vacation Ownership Resorts 3 hrs
- **HFT 4274** Vacation Ownership Resort Management 3 hrs
- **HFT 4522** Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
- **HFT 4442** Vacation Ownership Resort Reservations/Data Base Systems 3 hrs
- **HFT 4343** Hospitality Facilities Planning & Design 3 hrs

**D. Theme Park and Attraction Mgmt Track – Choose 5 Courses**

- **HFT 4786** Managing the Guest Experience in Theme Parks and Attractions 3 hrs
- **HFT 4759** Product Development in Theme Parks and Attractions 3 hrs
- **HFT 4758** Contemporary Issues in the Theme Park and Attraction Industry 3 hrs
- **HFT 4522** Managing the Employee Experience in Theme Parks and Attractions Industry 3 hrs
- **HFT 4787** Operational Issues in the Theme Park and Attraction Industry 3 hrs
- **HFT 3757** Event Management 3 hrs
- **HFT 4795** Entertainment Arts and Events 3 hrs

**E. Tourism Management Track**

- **HFT 4735** Tourism Geography 3 hrs
- **HFT 4722** Travel Agency Management 3 hrs
- **HFT 4762** Current Practices in the Airline Industry 3 hrs
- **HFT 4754** Exhibit & Trade Show Operations 3 hrs
- **HFT 3757** Event Management 3 hrs

**F. Lodging Management Track**

- **HFT 3313** Hospitality Physical Plant Management 3 hrs
- **HFT 4343** Hospitality Facilities Planning & Design 3 hrs
- **HFT 4473** Hotel Development Analysis 3 hrs
- **HFT 4253** Hotel Operations 3 hrs
- **HFT 3515** Reservations Sales & Marketing 3 hrs

**G. Hospitality Financial Management and Technology**

- **HFT 4442** Vacation Ownership Resort Reservations/Data Base Systems 3 hrs
- **HFT 4473** Hotel Development Analysis 3 hrs
- **HFT 4432** Hospitality Industry Auditing 3 hrs
- **HFT 4413** Technology Applications for Management 3 hrs
- **HFT 3515** Reservations Sales & Marketing 3 hrs

**6. Foreign Language Requirements**

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

**7. University Minimum Exit Requirements**

- A 2.0 UCF GPA
- 42 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A minimum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable)

**8. Electives**

- (variable)
- 500 hours of supervised work experience
A. Communication Foundations 9 hrs

Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.

B. Cultural and Historical Foundations 9 hrs

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.)

1. UC General Education Program (36 hrs)

- Communication Foundations 9 hrs
- Cultural and Historical Foundations 9 hrs
- Mathematical Foundations 6 hrs
- Social Foundations 6 hrs
- Science Foundations 6 hrs

2. Lower Level Required Courses Taken at Community College (33 hrs)

3. Information Systems Technology Core Courses (26 hrs)

- ETI 3651C Computer Applications 3 hrs
- CET 3010 Intro to Info Technology 3 hrs
- STA 2023 Statistical Methods I 3 hrs
- ETI 4448 Applied Proj Mgmt 3 hrs
- ENC 3241 Writing for the Technical Professional 3 hrs
- EET 398BC Electricity & Electronics 4 hrs
- CET 3323C Digital Technology 4 hrs
- CET 2364 Systems Applications in C 3 hrs

4. Required Technical Courses (21 hrs)

- CET 4427 Applied Database I 3 hrs
- CET 3383 Applied Systems Analysis I 3 hrs
- CET 4505 Applied Operating Systems I 3 hrs
- CET 3752 Intro to Telephony 3 hrs
- CET 4483 Intro to Local Area Network 3 hrs
- CET 4333 Computer Organization & Design 3 hrs
- CET 4748 Wide Area Networks I 3 hrs

5. Technical Electives (12 hrs)

Choose four from the following:

- CET 3198C Digital Systems 3 hrs
- CET 4138C Digital Programmable Devices 3 hrs
- CET 4931 Current Topics in Technology 3 hrs
- CET 4749 Wide Area Network II 3 hrs
- MAP 3401 Problem Analysis 3 hrs
- CET 4522 Applied Systems Analysis II 3 hrs
- CET 4429 Applied Database II 3 hrs
- CET 4583 Web Base Systems I 3 hrs
- CET 4584 Web Base Systems II 3 hrs
- CET 4663 Computer & Networks Security 3 hrs
- STA 5957 Data Mining I 3 hrs

6. Departmental Exit Requirements none

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

9. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hrs

Related Programs: Security Computing and Networks

Related Minors: none

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.

Tentative Course Schedule for Transferring Students

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year

Fall 14 hrs  Spring 12 hrs

- EET 3085C Elect & Electronics  4  CET 4483 Local Area Network  3
- CET 3323C Digital Tech  4  ETI 3651C Computer Appl  3
- CET 3010 Intro to Info Tech  3  Tech Elective  3
- CET 2364 Systems Apps in C  3  STA 2023  3
Liberal Studies (B.S.)

A.S. TO B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

Office of Undergraduate Studies

Office of Liberal and Interdisciplinary Studies

CL-I, Room 302; http://liberalstudies.info
Liberal Studies Advising Team, 407-823-0144

The program is administered through the Office of Liberal and Interdisciplinary Studies in the Office of Undergraduate Studies and is designed for academic flexibility. It recognizes that there are many combinations of courses that meet the needs of individual students.

Admission Requirements

Completion of an A.S. degree from a Florida public community college that is composed of (at least) 60 credit hours of course work, including at least 18 hours of transferable general education courses.

Degree Requirements

- Students who change degree program and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Co-op or internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major. No independent studies from outside UCF can be used.
- Students must earn at least a "C" (2.0) in each restricted elective course
- Students must consult with a Liberal Studies advisor to enter the program
- No courses can count in more than one subject area or in a subject area and a minor
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four courses exclusive of credits done for the other degrees (s) and/or major (s), including any minors associated with that degree
- Students must complete a minimum of 60 credit hours at UCF (including up to 18 hours to complete the GEP, 18 upper level hours in one area of restricted electives, and 30 upper level credits in a minor and elective hours)

1. UCF General Education Program (GEP) (18 hrs)

Students will complete 18 hours of selected General Education courses at UCF. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:

- Communication Foundations
- Cultural and Historical Foundations
- Mathematical Foundations
- Social Foundations
- Science Foundation

2. Common Program Prerequisites

None

3. Restricted Electives (36 hrs)

- Students must complete one subject area concentration of eighteen upper-level credit hours from among those specified below
- Students must have sufficient work in the community college for a second subject area concentration of eighteen credit hours as determined by the Liberal Studies office
- Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses). Courses are considered approved only when they have been reviewed by a Liberal Studies advisor and not simply when they appear on a student audit
- Students are required to take a minimum of 18 UCF hours, as well as 18 upper-division hours, in the two areas combined
- See the Liberal Studies Advising Team for details regarding each area:
  - Commerce
  - Computer Science
  - Education
  - Engineering
  - Health and Biomedical Sciences
  - Natural Sciences
  - Public Affairs

4. Required Minor (18 hrs min)

Students must complete a minor from those offered at UCF that qualify in the B.S. area. A list of these minors is available in the Liberal Studies office as part of the A.S. to B.S. degree advising sheet. The minor cannot overlap with the two subject areas. The minimum number of credit hours for a minor is eighteen at the upper level. The minor degree audit must be approved by, and completion of the minor certified by, the department offering the minor.

5. Program Exit Requirements

A grade of “C” or above (2.0) is required for each course taken in each of the subject areas, including those at the community college

6. Foreign language Requirements

Admission-BS: Two years high school or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation -BS: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement. Note: Students entering without having met the admission requirements must do so in order to graduate.

7. Electives (variable)

Select from upper level courses, with Liberal Studies advisor’s approval.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Computer in Formation Technology Track, Liberal Arts Track, Environmental Studies Track, Women’s Studies Track

Related Minors: most UCF minors

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

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<table>
<thead>
<tr>
<th>Summer</th>
<th>9 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 4333 Comp Org &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>ENC 3241 Tech Rept Writing</td>
<td>3</td>
</tr>
<tr>
<td>EET 4448 Applied Proj Mgmt</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior Year Fall</th>
<th>12 hrs</th>
<th>Senior Year Spring</th>
<th>12 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 4505 Appl Oper Sys I</td>
<td>3</td>
<td>Tech Elective</td>
<td>3</td>
</tr>
<tr>
<td>CET 4427 Appl Database</td>
<td>3</td>
<td>CET 4483 Intro to Local Area Net</td>
<td>3</td>
</tr>
<tr>
<td>CET 3752 Intro to Telephony</td>
<td>3</td>
<td>Tech Elective</td>
<td>3</td>
</tr>
<tr>
<td>CET 4748 Wide Area Networks I</td>
<td>3</td>
<td>Tech Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Articulated A.S. To B.S. Programs
NURSING (B.S.N.)

E. A.S. TO B.S.N. TRACK

(Completion program for individuals who have a statewide articulated A.S. Nursing degree from a Florida public community college)

College of Health and Public Affairs
HPA 220, 407-823-2744
http://www.cohpa.ucf.edu/nursing/
RN-BSN Coordinator: Linda Hennig
E-mail: ucfnurse@gmail.ucf.edu

Admission Requirements

Limited Access

Acceptance to the university does not constitute admission to the upper division nursing program. Separate application to the limited access program must be made directly to the School of Nursing. All applicants must have:

- A minimum overall GPA of 2.5
- Completion of a Statewide Articulated A.S. in Nursing from a Florida public community college which is composed of 72 hours of course work, including at least 18 hours of transferable General Education courses (graduation 12/00 or later)
- Current RN License or license eligible

Degree Requirements

- Completion of all common program prerequisite courses with at least a grade of "C" (2.0) or better
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements 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 2.5 GPA in the Nursing Major are required for continuation in and graduation from the Nursing Program
- UCF Residency Requirement: 32 hours

1. UCF General Education Program (18 hrs)

Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with 18 hours of General Education courses completed as part of the articulated A.S.

Student must complete all General Education and foreign language admissions requirements prior to NUR 4084. Students completing the General Education requirements at a Florida community college must complete those courses prior to their last 30 hours at UCF.

UCF General Education Program (36 hrs)

A. Communication Foundations

1. ENC 1101 & ENC 1102
2. Prefer SPC 1600

B. Cultural Historical Foundations

1. Select MAC 1105
2. Select STA 2014C

C. Mathematical Foundations

1. Select SYG 2000
2. ECO 2013, ECO 2023 or POS 2041

D. Social Foundations

1. Select SYG 2000
2. ECO 2013, ECO 2023 or POS 2041

E. Science Foundations:

1. BSC 2010C – General Biology
2. CHM 1032 & CHM1032L – General Chemistry & Lab
3. OR Anatomy & Physiology I & II
4. OR ZOO 373C & PCB 3703C, Human Anatomy & Physiology

2. Common Program Prerequisites (21 hrs)

1. Select SYG 2000
2. ECO 2013, ECO 2023 or POS 2041

A. General Psychology**

Psy 2012

B. General Chemistry and Lab**

Chem 1032L

C. General Microbiology

Mcb 2004C

D. Principles of Statistics**

Sta 2014C

E. Human Nutrition

Hun 301L

*May take Anatomy and Physiology sequence of six-eight total credits:
**Also meets General Education Requirements:

See a UCF Nursing advisor for possible course substitutions.

3. Core Requirements (55 hrs)

NUR 3805

Transitional Concepts in Nursing I

NUR 3065L

Health Assessment

NUR 3065L

Health Assessment Lab

NUR 3165

Nursing Research/Critical Inquiry

NUR 4084

Transitional Concepts in Nursing II

NUR 4636

Community as Continuum of Care

NUR 4636L

Clin Prac in Comm-Oriented Nursing

NUR 4827

Leadership and Management Principles

NUR 4837

Health Care Issues, Policy, & Econ

NUR 4812

Directed Nursing Practice

Validation Credit

4. Restricted Elective

3 hrs

5. Departmental Exit Requirements

Completion of all courses in major with a grade of "C" (2.0) or better

UCF GPA of 2.5 or above

School of Nursing GPA of 2.5 or above

6. Electives

variable

7. Foreign Language Requirements

(0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation:

none

8. University Minimum Exit Requirements

A 2.0 UCF GPA and a 2.5 Nursing Major GPA

60 semester hours earned after CLEP awarded

48 semester hours of upper division credit completed

30 of the last 36 hours of course work must be completed in residence at UCF

A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

Complete the General Education Program, the Gordon Rule, and the CLAST (or exemption)

Total Semester Hours Required 128 hours

Related Programs: Health Services Administration, Social Work, all health programs

Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

Progression requirements:

Prior to NUR 3805:

RN status or eligible to take NCLEX.

Prior to NUR 3165:

Complete NUR 3805 and Statistics course with grade of "C" (2.0) or better

Prior to NUR 4084:

Be admitted to the Nursing program

Complete General Education requirements from a Florida state community college or university (SUS)

Complete CLAST (or exemption)

Complete foreign language admission requirement

RADIOLOGIC SCIENCES (B.S.)

A.S. TO B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Health and Public Affairs
HPA2 210, 407-823-2747
Undergraduate Program Director: Thomas Edwards
E-mail: tedwards@mail.ucf.edu
http://www.cohpa.ucf.edu/health/pro/radtransfer.cfm

Admission Requirements - Limited Access

Acceptance to the university does not necessarily constitute admission to the upper division Radiologic Sciences Program. Separate application to the limited access program must be made directly to the program.

- Criminal history information (background check) must be submitted.
- For Florida residents the criminal history must be certified by the Florida Department of Law Enforcement (FDLE).
- A personal interview is also required.
- Student must complete a Statewide Articulated A.S. in Radiography
Articulated A.S. To B.S. Programs

program from a Florida public community college that is composed of a minimum of 62 hours of course work, including at least 15 hours of transferable General Education courses. Students certified in radiography and in good standing with the American Registry of Radiologic Technicians (ARRT) who have not completed a Statewide Articulated A.S. in Radiography program from a Florida Public Community College may apply for admission but are not eligible to transfer to UCF under the provisions of the statewide articulation agreement.

- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C" (2.0).
- Students must be certified in radiography and be in good standing with the American Registry of Radiologic Technologists (ARRT).

Degree Requirements
- Students should consult with a departmental advisor.
- Many of the courses designated in sections 1 and 2 below may be taken at a Florida community college, and should usually be completed in the first 60 hours.
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program.
- UCF residency requirement for Radiography: 33 hours

### 1. UCF General Education Program (21 + 1 hrs)

<table>
<thead>
<tr>
<th>Category</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>Select ENC 1102 and SPC 1600 or SPC 1016</td>
</tr>
<tr>
<td>B. Cultural Historical Foundations</td>
<td>MAC 1105 (Completed at CC)</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>MAC 1060C (Completed at CC)</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>Select ECO 2013 or ECO 2023 or POS 2041</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>Select PHY 2053C</td>
</tr>
<tr>
<td></td>
<td>Select BSC 1005 or 1050</td>
</tr>
</tbody>
</table>

### 2. Common Program Prerequisites (4 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1060C</td>
<td>Introduction to Computer Science</td>
<td>CC</td>
</tr>
<tr>
<td>PCB 3703C</td>
<td>Human Physiology</td>
<td>CC</td>
</tr>
<tr>
<td>PHY 2053C</td>
<td>College Physics I</td>
<td>UCF GEP</td>
</tr>
<tr>
<td>PHY 2054C</td>
<td>College Physics II</td>
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<tr>
<td>ZOO 3733C</td>
<td>Human Anatomy</td>
<td>CC</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
<td>CC</td>
</tr>
</tbody>
</table>

CC courses completed as part of the approved A.S. program GEP and core courses with the exception of PHY 2053C and 2054C.

*See Transfer Notes*

### 3. Core Requirements (33 hrs)

**A.S. transfer students will not be required to complete all of the core courses listed below. Specific core course requirements will be based on allowable course transfers and career goals.**

#### Junior Level

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credit</th>
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<tbody>
<tr>
<td>RTE 3000</td>
<td>Introduction to Radiologic Sciences</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 3111C</td>
<td>Introduction to Patient Care</td>
<td>2 hrs</td>
</tr>
<tr>
<td>RTE 3503C</td>
<td>Radiographic Procedures I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 5116</td>
<td>Advanced Patient Care</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 3418C</td>
<td>Principles of Radiographic Exposure I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 3930</td>
<td>ST: Clinical Education I</td>
<td>2 hrs</td>
</tr>
<tr>
<td>RTE 3513C</td>
<td>Radiographic Procedures II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 3457C</td>
<td>Principles of Radiographic Exposure II</td>
<td>3 hrs</td>
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<tr>
<td>RTE 3684C</td>
<td>Physics of Image Production</td>
<td>2 hrs</td>
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<td>RTE 3308</td>
<td>Medical Physics</td>
<td>3 hrs</td>
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<tr>
<td>STA 2023</td>
<td>Statistical Methods I</td>
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<tr>
<td>HSC 4550</td>
<td>Pathophysiologic Mechanisms</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 3930</td>
<td>ST: Clinical Education II</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

Core course requirements will include PHY 2054C. Additional core course requirements will be determined during advisement.

### 5. Program Exit Requirements (124 hrs)

A minimum overall GPA of 2.50 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program.

### 6. Electives

None

### 7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None

### 8. University Minimum Exit Requirements

- An overall GPA of 2.5
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)
Classification of Courses
The University course numbering system is as follows:

0-0999 Subcollegiate level and not counted in meeting degree requirements.
1000-2999 Freshman and sophomore level courses and are designed primarily for these students.
3000-4999 Junior- and senior-level courses (Upper-division). These courses contain advanced undergraduate material and are designed primarily for undergraduate juniors and senior.
5000-5999 Beginning graduate and advanced graduate level courses. These courses provide more advanced material than that found in undergraduate courses. They are designed primarily for beginning graduate students, but may be suitable for some advanced undergraduate seniors. They are open for registration to all graduate students and those seniors who receive approval of the appropriate Dean(s).
6000-6999 Advanced graduate level courses. These courses are designed to build upon the beginning graduate level courses and to deliver more advanced content and experiences. They are open only to graduate students. (Seniors, within nine hours of graduation that have a minimum 3.0 GPA and do not register for more than twelve hours may request college permission to take a 6000-level class.) Students in 3+2 programs (combined bachelor’s and master’s programs) should check with their adviser before registering for 6000-level courses.
7000-7999. Doctoral-level courses. These courses provide material at the most advanced graduate level. They are restricted to admitted doctoral students only.

Florida’s Statewide Course Numbering System
Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System. This common numbering system is used by all public postsecondary institutions in Florida and by participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.
Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.
The course prefix and each digit in the course number have a meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "statewide course details."

General Rule for Course Equivalencies
Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions. (Exceptions are listed below.)
For example, a survey course in social problems is offered by 35 different postsecondary institutions. Each institution uses “SYG 010” to identify its social problems course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, “SYG” means “Sociology, General,” the century digit “0” represents “Entry-level General Sociology,” the decade digit “1” represents “Survey Course,” and the unit digit “0” represents “Social Problems.”

In science and other areas, a “C” or “L” after the course number is known as a lab indicator. The “C” represents a combined lecture and laboratory course that meets in the same place at the same time. The “L” represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 2010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent.

The Course Prefix
The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

Authority for Acceptance of Equivalent Courses
Section 1007.24(7), Florida Statutes, states:
Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency
The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution:

Courses in the x900-x999 series (e.g., ART 2905)
- Internships, practica, clinical experiences, and study abroad courses
- Performance or studio courses in Art, Dance, Theater, and Music
- Skills courses in Criminal Justice
- Graduate courses
- Courses not offered by the receiving institution
- For courses at non-regionally accredited institutions, courses offered prior to the transfer date of the course

College preparatory and vocational preparatory course 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 Dees, Assistant Dean of Undergraduate Studies, Academic Services, Millican Hall 210, University of Central Florida, 4000 Central Florida Parkway, Orlando, FL 32816, or the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the Statewide Course Numbering System office at (850) 245-0427 or SunCom 205-0427.
<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>0</td>
</tr>
</tbody>
</table>

Sociology/Freshman level
General Level at this entry-level General institution
Survey Course Social Problems
No laboratory component in this course

<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>ABE</td>
<td>Agricultural and Biological Engineering</td>
<td>CEG</td>
<td>Civil Geotechnical Engineering</td>
<td>EDE</td>
<td>Education: Elementary</td>
</tr>
<tr>
<td>ABI</td>
<td>Arabic in Translation for Translators</td>
<td>CEN</td>
<td>Civil Engineering Structures</td>
<td>EDF</td>
<td>Education: Foundations and Policy Studies</td>
</tr>
<tr>
<td>ACG</td>
<td>Accounting: General</td>
<td>CES</td>
<td>Civil Engineering</td>
<td>EDG</td>
<td>Education: General</td>
</tr>
<tr>
<td>ACO</td>
<td>Accounting: Occupational/Technical Variable Paced</td>
<td>CET</td>
<td>Computer Engineering Technology</td>
<td>EDH</td>
<td>Education: Higher</td>
</tr>
<tr>
<td>ACR</td>
<td>HVACR: Heating/Ventilation/Air Conditioning/Refrigeration</td>
<td>CGN</td>
<td>Civil Engineering</td>
<td>EDM</td>
<td>Education: Middle School</td>
</tr>
<tr>
<td>AES</td>
<td>Afro-American Studies</td>
<td>CHT</td>
<td>Chinese Literature</td>
<td>EES</td>
<td>Environmental Emphasis</td>
</tr>
<tr>
<td>AGI</td>
<td>Adult Education</td>
<td>CHD</td>
<td>Home Economics: Child Development</td>
<td>EDS</td>
<td>Education: Supervision</td>
</tr>
<tr>
<td>ADV</td>
<td>Advertising</td>
<td>CHI</td>
<td>Chinese</td>
<td>EEC</td>
<td>Education: Early Childhood</td>
</tr>
<tr>
<td>AEB</td>
<td>Agricultural Economics and Business</td>
<td>CHM</td>
<td>Chemistry</td>
<td>EED</td>
<td>Education: Emotional Disorders</td>
</tr>
<tr>
<td>AEF</td>
<td>Agriculture and Extension Education</td>
<td>CHR</td>
<td>Chiropathic</td>
<td>EEL</td>
<td>Engineering: Electrical</td>
</tr>
<tr>
<td>ASR</td>
<td>Automotive Mechanics</td>
<td>CHS</td>
<td>Chemistry-Specialized</td>
<td>EER</td>
<td>Educational/Technical</td>
</tr>
<tr>
<td>AFA</td>
<td>African-American Studies</td>
<td>CHT</td>
<td>Chinese Literature (Writings)</td>
<td>EET</td>
<td>Electronic Engineering Technology</td>
</tr>
<tr>
<td>AFR</td>
<td>Aerospace Studies</td>
<td>CIS</td>
<td>Computer Science and Information Systems</td>
<td>EEV</td>
<td>Electronic/Electronic Vocational</td>
</tr>
<tr>
<td>AFS</td>
<td>African Studies</td>
<td>CJB</td>
<td>College Level Application in Criminal Justice</td>
<td>EEX</td>
<td>Education: Exceptional Child-Child Competencies</td>
</tr>
<tr>
<td>AGE</td>
<td>Agricultural Engineering</td>
<td>CJC</td>
<td>Corrections</td>
<td>EGC</td>
<td>Education: Forensic Science</td>
</tr>
<tr>
<td>AGG</td>
<td>Agriculture: General</td>
<td>CJD</td>
<td>Criminal Justice Development</td>
<td>EGI</td>
<td>Education: Gifted</td>
</tr>
<tr>
<td>AGR</td>
<td>Agronomy</td>
<td>CJE</td>
<td>Law Enforcement</td>
<td>EGM</td>
<td>Engineering Science</td>
</tr>
<tr>
<td>AKF</td>
<td>Akai</td>
<td>CJK</td>
<td>Juvenile Justice</td>
<td>EGN</td>
<td>Engineering: General</td>
</tr>
<tr>
<td>ALS</td>
<td>Agriculture and Life Sciences</td>
<td>CJI</td>
<td>Criminal Justice Basic Training</td>
<td>EGS</td>
<td>Engineering: Support</td>
</tr>
<tr>
<td>AMH</td>
<td>American History</td>
<td>CIL</td>
<td>Law and Process</td>
<td>EMD</td>
<td>Education: Hard of Hearing and Deaf</td>
</tr>
<tr>
<td>AMI</td>
<td>American Literature</td>
<td>CIT</td>
<td>Criminal Justice Technologies</td>
<td>EIA</td>
<td>Education: Industrial Arts</td>
</tr>
<tr>
<td>AMS</td>
<td>American Studies</td>
<td>CLA</td>
<td>Classical and Ancient Studies</td>
<td>EIN</td>
<td>Industrial Engineering</td>
</tr>
<tr>
<td>AMT</td>
<td>Aviation Maintenance Technology</td>
<td>CLP</td>
<td>Clinical Psychology</td>
<td>EIV</td>
<td>Education: Industrial/Vocational</td>
</tr>
<tr>
<td>ANG</td>
<td>Anthropology-Graduate</td>
<td>CLT</td>
<td>Classical Literature in Translation</td>
<td>ELD</td>
<td>Education: Specific Learning Disabilities</td>
</tr>
<tr>
<td>ANS</td>
<td>Anthropology</td>
<td>CMC</td>
<td>Corporate Media Communication</td>
<td>ELR</td>
<td>Electrical Laboratories and Related Areas</td>
</tr>
<tr>
<td>ANT</td>
<td>Anthropology</td>
<td>CNT</td>
<td>Computer Networks</td>
<td>EMA</td>
<td>Materials Engineering</td>
</tr>
<tr>
<td>AOM</td>
<td>Agricultural Operations Management</td>
<td>COA</td>
<td>Home Economics: Consumer Affairs</td>
<td>EMC</td>
<td>Engineering: Mechanical &amp; Chemical</td>
</tr>
<tr>
<td>APA</td>
<td>Applied Accounting</td>
<td>COE</td>
<td>Cooperative Education</td>
<td>EME</td>
<td>Education: Technology and Media</td>
</tr>
<tr>
<td>APB</td>
<td>Applied Biology</td>
<td>COM</td>
<td>Communication</td>
<td>EML</td>
<td>Engineering: Mechanical</td>
</tr>
<tr>
<td>APRA</td>
<td>Arabic Language</td>
<td>COP</td>
<td>Computer Programming</td>
<td>EMR</td>
<td>Education: Mental Retardation</td>
</tr>
<tr>
<td>ARC</td>
<td>Architecture</td>
<td>COS</td>
<td>Cosmetology</td>
<td>EMS</td>
<td>Emergency Medical Services</td>
</tr>
<tr>
<td>ARD</td>
<td>Architectural Design</td>
<td>COT</td>
<td>Computing Theory</td>
<td>ENC</td>
<td>English Composition</td>
</tr>
<tr>
<td>ARE</td>
<td>Art Education</td>
<td>CPO</td>
<td>Comparative Politics</td>
<td>ENG</td>
<td>English- General</td>
</tr>
<tr>
<td>ARH</td>
<td>Art History</td>
<td>CPS</td>
<td>Comparative Policy Studies (Multinational)</td>
<td>ENL</td>
<td>English Literature</td>
</tr>
<tr>
<td>ARR</td>
<td>Autobody Repair and Refinishing</td>
<td>CPT</td>
<td>Cardiopulmonary</td>
<td>ENS</td>
<td>English for Non-Native Speakers</td>
</tr>
<tr>
<td>ART</td>
<td>Art</td>
<td>CRW</td>
<td>Creative Writing</td>
<td>ENU</td>
<td>Engineering: Nuclear</td>
</tr>
<tr>
<td>ARV</td>
<td>Art, Vocational</td>
<td>CSP</td>
<td>Cosmetology-Specialized</td>
<td>ENU</td>
<td>Engineering: Nuclear</td>
</tr>
<tr>
<td>ASC</td>
<td>Aviation Science: General</td>
<td>CST</td>
<td>Comparative Studies</td>
<td>ENV</td>
<td>Engineering: Environmental</td>
</tr>
<tr>
<td>ASG</td>
<td>Animal Science: General</td>
<td>CTE</td>
<td>Home Economics: Clothing and Textiles</td>
<td>ENY</td>
<td>Entomology</td>
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<tr>
<td>ASH</td>
<td>Asian History</td>
<td>CTS</td>
<td>Computer Technology and Skills</td>
<td>EOC</td>
<td>Oceanography</td>
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<tr>
<td>ASN</td>
<td>Asian Studies</td>
<td>CVT</td>
<td>Cardiovascular Technology</td>
<td>EPH</td>
<td>Education: Physical &amp; Multiple Handicapped</td>
</tr>
<tr>
<td>AST</td>
<td>Astronomy</td>
<td>CWR</td>
<td>Civil Water Resources</td>
<td>ESC</td>
<td>Earth Science</td>
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<tr>
<td>ATE</td>
<td>Animal Science Technology</td>
<td>CYP</td>
<td>Community Psychology</td>
<td>ESE</td>
<td>Education: Secondary</td>
</tr>
<tr>
<td>ATR</td>
<td>Aviation Technology</td>
<td>CZE</td>
<td>Czech Language</td>
<td>ESI</td>
<td>Industrial/Systems Engineering</td>
</tr>
<tr>
<td>ATT</td>
<td>Aviation Technology: Flight</td>
<td>CZE</td>
<td>Czech Language</td>
<td>ESL</td>
<td>College-Preparatory English for</td>
</tr>
<tr>
<td>AVM</td>
<td>Aviation Management</td>
<td>DAA</td>
<td>Dance, Emphasis on Activity</td>
<td>ETE</td>
<td>Non-Native Speakers</td>
</tr>
<tr>
<td>AVS</td>
<td>Avionics</td>
<td>DAEB</td>
<td>Dance Education</td>
<td>EST</td>
<td>Electronic Specialty Technology</td>
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<tr>
<td>AYM</td>
<td>Aymara Language</td>
<td>DAN</td>
<td>Dance</td>
<td>ETM</td>
<td>Engineering: Civil</td>
</tr>
<tr>
<td>BAN</td>
<td>Commercial Banking</td>
<td>DAS</td>
<td>Dairy Science</td>
<td>ETG</td>
<td>Engineering Technology: General</td>
</tr>
<tr>
<td>BCA</td>
<td>Building Construction Apprenticeships</td>
<td>DEA</td>
<td>Dental Hygiene</td>
<td>ETI</td>
<td>Engineering Technology: Industrial</td>
</tr>
<tr>
<td>BCC</td>
<td>Basic Clinical Clerkships (Required)</td>
<td>DEC</td>
<td>Dental Hygiene</td>
<td>ETO</td>
<td>Engineering Technology: General</td>
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<td>BCH</td>
<td>Biochemistry (Biophysics)</td>
<td>DEH</td>
<td>Dental Hygiene</td>
<td>ETP</td>
<td>Engineering Technology: Industrial</td>
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<tr>
<td>BCN</td>
<td>Building Construction</td>
<td>DEM</td>
<td>Demography</td>
<td>ETN</td>
<td>Engineering Technology: Mechanical</td>
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<tr>
<td>BCT</td>
<td>Building Construction Trades</td>
<td>DEN</td>
<td>Dentistry</td>
<td>EUH</td>
<td>Engineering Technology: Mechanical</td>
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<tr>
<td>BCV</td>
<td>Building Construction: Vocational</td>
<td>DEP</td>
<td>Developmental Psychology</td>
<td>EUS</td>
<td>European History</td>
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<tr>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>DES</td>
<td>Dental Support</td>
<td>EVI</td>
<td>Education: Visually Impaired-Blind</td>
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<tr>
<td>BMS</td>
<td>Basic Medical Sciences</td>
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<td>Dietetics</td>
<td>EVR</td>
<td>Environmental Studies</td>
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<td>BOT</td>
<td>Botany</td>
<td>DIM</td>
<td>Diesel Mechanics</td>
<td>EYS</td>
<td>Environmental Science</td>
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<tr>
<td>BRC</td>
<td>Banking Related courses (not AIB or IFE)</td>
<td>DTE</td>
<td>Dental Laboratory Technology</td>
<td>EVT</td>
<td>Education: Vocational/Technical</td>
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<td>BSC</td>
<td>Biological Sciences</td>
<td>DUT</td>
<td>Dutch Language</td>
<td>EXP</td>
<td>Experimental Psychology</td>
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<tr>
<td>BTE</td>
<td>Business Teacher Education</td>
<td>EAB</td>
<td>Experimental Analysis of Behavior</td>
<td>FAD</td>
<td>Home Economics: Family Development</td>
</tr>
<tr>
<td>BUL</td>
<td>Business Law</td>
<td>EAP</td>
<td>English for Academic Purposes</td>
<td>FAM</td>
<td>Fashion Modeling</td>
</tr>
<tr>
<td>CAP</td>
<td>Computer Applications (for Computer Scientists)</td>
<td>EAS</td>
<td>Aerospace Engineering</td>
<td>FAS</td>
<td>Fishery &amp; Aquacultural Science</td>
</tr>
<tr>
<td>CAC</td>
<td>Clinical Audiology and Speech Language Pathology</td>
<td>ECH</td>
<td>Engineering: Chemical</td>
<td>FES</td>
<td>Fire and Emergency Services</td>
</tr>
<tr>
<td>CAT</td>
<td>CAT</td>
<td>ECM</td>
<td>Engineering: Computer Math</td>
<td>FFP</td>
<td>Fire Fighting &amp; Protection</td>
</tr>
<tr>
<td>CBF</td>
<td>Comparative Psychology and Animal Behavior</td>
<td>ECO</td>
<td>Economics</td>
<td>FIL</td>
<td>Film</td>
</tr>
<tr>
<td>CCE</td>
<td>Civil Construction Engineering</td>
<td>ECP</td>
<td>Economic Problems &amp; Policy</td>
<td>FIN</td>
<td>Finance</td>
</tr>
<tr>
<td>CCJ</td>
<td>Criminology and Criminal Justice</td>
<td>ECP</td>
<td>Economic Systems &amp; Development</td>
<td>FLE</td>
<td>Foreign Language Education</td>
</tr>
<tr>
<td>CDA</td>
<td>Computer Design/Architecture</td>
<td>EDH</td>
<td>Educational Administration</td>
<td>FNR</td>
<td>Forestry &amp; Natural Resources</td>
</tr>
</tbody>
</table>
Common Course Numbering System
FOL
FOR
FOS
FOT
FOW
FRC
FRE
FRT
FRW
FSE
FSS
FYC
GCO
GEA
GEB
GEO
GER
GET
GEW
GEY
GFD
GLS
GLY
GMS
GMT
GMW
GRA
GRE
GRK
GRW
HAI
HBR
HBT
HCA
HCP
HEB
HEC
HEE
HEV
HFT
HHD
HIM
HIS
HLP
HME
HMV
HMW
HOE
HOS
HRD
HSA
HSC
HUM
HUN
HUS
ICM
ICW
IDH
IDS
IEA
IHS
IND
INP
INR
IPM
ISC
ISM
ISS
ITA
ITT
ITW
JOU
JPN
JPT
JPW
JST
KOR
LAA
LAE

Foreign and Biblical Languages
Forestry
Food Science
Foreign and Biblical Languages (in Translation)
For and Bibl Lang, Comparative Lit (Writings)
Fruit Crops
French Language
French in Translation and/or Translation Skills
French Literature (Writings)
Funeral Services
Food Service Systems
Family, Youth, and Community
Golf Course Operations
Geography: Regional Areas
General Business
Geography: Systematic
German
German Literature in Translation
German Literature (Writings)
Gerontology
Geophysical Fluid Dynamics
Graduate Liberal Studies
Geology
Graduate Medical Sciences
Modern Greek Literature in Translation
Modern Greek Literature (Writings)
Graphic Arts
Classical Greek (Language Study)
Modern Greek Language
Classical Greek Literature (Writings)
Haitian Creole Language
Modern Hebrew Language
Modern Hebrew in Translation
Health Care Administration
Health-Care Providers (Assistants)
Ancient Hebrew
Home Economics/Community
Home Economics Education
Home Economics- Vocational
Hospitality Management
Housing & Home Design
Health Information Management
General History and Histriography
Health, Leisure, and Physical Education
Home Economics: Home Management and
Equipment
Hospitality Management, Vocational
Modern Hebrew Literature (Writings)
Home Economics: General
Horticultural Sciences
Human Resources Development
Health Services Administration
Health Sciences
Humanities
Human Nutrition
Human Services
International Construction Management
Icelandic Literature
Interdisciplinary Honors
Interdisciplinary Studies
Industrial Education Applied
Interdisciplinary Health Sciences
Interior Design
Industrial and Applied Psychology
International Relations
Integrated Pest Management
Interdisciplinary Sciences
Information Systems Management
Interdisciplinary Social Sciences
Italian Language
Italian Literature in Translation
Italian Literature (Writings)
Journalism
Japanese
Japanese Literature in Translation
Japanese Literature (Writings)
Jewish/Judaic Studies
Korean Language and Literature
Landscape Architecture
Language Arts and English Education

LAH
LAS
LAT
LAW
LBS
LEI
LIN
LIS
LIT
LNW
MAA
MAC
MAD
MAE
MAG
MAN
MAP
MAR
MAS
MAT
MCB
MCC
MDW
MEA
MEL
MER
MET
MGF
MGR
MHF
MHS
MIS
MKA
MLS
MLT
MMC
MNA
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MHF
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MUN
MUO
MUR
MUS
MUT
MUY
MVB
MVH
MVJ
MVK
MVO
MVP
MVS
MVV

Latin American History
Latin American Studies
Latin (Language Study)
Law
Labor Studies
Leisure
Linguistics
Library and Information Studies
Literature
Latin Literature (Writings)
Mathematics- Analysis
Mathematics- Calculus and Pre-calculus
Mathematics- Discrete
Mathematics Education
Mechanized Agriculture
Management
Mathematics Applied
Marketing
Mathematics- Algebraic Structures
Mathematics
Microbiology
Special Topics in Mass Communication
Midwifery
Medical Assisting Technology
Medical Science Electives
Mental Retardation
Meteorology
Mathematics- General and Finite
Primary Care of Older Adults
Mathematics- History and Foundations
Mental Health Services
Military Science
Marketing Applications
Medical Laboratory Science
Medical Laboratory Technology
Mass Media Communication
Management: Applied
Molecular Biophysics
Motorcycle Mechanics
Medical Records
Massage
Mathematics- Technical and Business
Marine Technology and Nautical Science
Mathematics- Topology and Geometry
Mathematics- History and Foundations
Mental Health Services
Military Science
Marketing Applications
Medical Laboratory Science
Medical Laboratory Technology
Mass Media Communication
Management: Applied
Molecular Biophysics
Motorcycle Mechanics
Medical Records
Massage
Mathematics- Technical and Business
Marine Technology and Nautical Science
Mathematics- Topology and Geometry
Medical Transcription Science
Music: Composition
Music Education
Music: Conducting
Music: History/Musicology
Music Literature
Music: Commercial/Management/Administration
Music Ensembles
Music: Opera/Musical Theatre
Music: Church
Music
Music: Theory
Music: Therapy
Applied Music: Brasses
Historical Instruments
Applied Music: Jazz
Applied Music: Keyboard
Applied Music: Other
Applied Music: Percussion
Applied Music: Strings
Applied Music: Voice

MVW
Applied Music: Woodwinds
NEM
Nematology
NGR
Nursing, Graduate
NMT
Nuclear Medicine Technology
NSC
Naval Science
NUR
Nursing, Generic Undergraduate
OCA
Office Computer Applications
OCB
Biological Oceanography
OCC
Chemical Oceanography
OCE
General Oceanography
OCG
Geological Oceanography
OCP
Physical Oceanography
OFT Office Technology (Occupational/Variable Paced)
OPT
Ophthalmic Technology/Vision Care
ORH
Ornamental Horticulture
ORI
Oral Interpretation
ORV
Ornamental Horticulture (Variable Paced)
OSE
Optical Science and Engineering
OST
Office Systems Technology
OTA
Office Technology Applications
OTH
Occupational Therapy
PAD
Public Administration
PAF
Public Affairs
PAS
Physician Assistant
PAX
Peace Studies
PAZ
Parks and Zoos
PCB
Process Biology , Cell/Molecular/Ecology/
Genetics/Physiology
PCO
Psychology for Counseling
PEL
Phys. Edu. Acts- (Gen.)- Object Centered, Land
PEN Physical Edu. Activities (Gen)- Water, Snow, Ice
PEO Phys. Edu. Acts (Profnl.)- Object Centered, Land
PEQ
PET
Physical Education Therapy
PGY
Photography
PHA
Pharmacy
PHC
Public Health Concentration
PHH
Philosophy, History of
PHI
Philosophy
PHM
Philosophy of Man and Society
PHP
Philosophers and Schools
PHT
Physical Therapy
PHY
Physics
PHZ
Physics (Continued)
PKG
Packaging Sciences
PLA
Paralegal/ Legal Assistant/ Legal Administration
PLP
Plant Pathology
PLS
Plant Science
PLT
Polish in Translation and/or Translation Skills
PLW
Polish Literature
PMA
Pest Management
PMT
Precision Metals Technology
POL
Polish Language
POR
Portuguese Language
POS
Political Science
POT
Political Theory
POW
Portuguese Literature (Writings)
PPE
Personality
PRN
Practical Nursing
PRO
Prosthetics/Orthotics
PRT
Portuguese in Translation
PSB
Psychobiology
PSC
Physical Sciences
PSE
Poultry Science
PSY
Psychology
PTN
Pharmacy Technician
PUP
Public Policy
PUR
Public Relations
QMB
Quantitative Methods in Business
RAT
Radiation Therapy
RCS
Rehabilitation Counseling Services
REA
Reading
RED
Reading Education
REE
Real Estate
REL
Religion
RET
Respiratory Care
RHT Radiation Health/ Radiation Protection Technology
RMI
Risk Management & Technology

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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 sub-collegiate level and may not be counted in meeting degree credit hour requirements for graduation.

Special Courses
In addition to the regular courses listed in this catalog, special courses may be available. Students should consult their academic advisor for details.

Special Undergraduates
Gradual Independent Studies
Directed Independent Research

Special Undergraduate Research
IDS 3913, 4914
Special Topics/Seminars
1911, 2930, 3930, 4932, 5937
*Internships, Practicums, Clinical Prac
3940, 4941

Cooperative Education
1949, 2949, 3949, 4949
5949

Honors Undergraduate Thesis
3970, 4970

Honors Directed Reading
4903

Honors Directed Research
4904

Study Abroad
4955

*These courses may be assigned variable credit. Some may be repeated upon approval.
*The Special Graduate Courses are primarily for graduate students, but may be taken by advanced seniors with the consent of their deans.

Dual Usage of Credit Hours
With the exception of 3 + 2 programs, courses used to meet the requirements of an undergraduate degree cannot typically also be used to meet the requirements of a graduate program. Students should consult their advisor or college for specific program requirements or additional information.

UCF Course Description Legend
PR: (Prerequisite) A course in which credit must be earned prior to enrollment in the listed course.
CR: (Corequisite) A course that must be taken concurrently with, or prior to, the listed course.
CI: (Consent of the Instructor)

Hours Code
Each course listed is followed by a code that shows hours of credit and contact hours. Example:

ENV 4121C ECS-CEE 3(2,3)
ENV 4121C is offered by the College of Engineering and Computer Science (ECS), in the Civil and Environmental Engineering (CEE) Department, carries 3 hours of credit but requires 5 contact hours which consist of 2 hours in class and 3 hours laboratory or field work.

College/School/Department Indicator
Following the course number for each course listed is an indicator denoting the college, school, and department responsible for the course. The college designators are:
- BA = Business Administration
- AH = Arts & Humanities
- BHC = Burnett Honors College
- COS = Sciences, ED = Education, ECS = Engineering and Computer Science
- HM = Hospitality Management
- IHE = Health and Public Affairs

Department indicators are listed below (by college):
- AS = African American Studies
- AS = Art
- AS = Arts & Sciences
- AS = Biology
- AS = Chemistry
- AS = Communication
- AS = Digital Media
- AS = English
- AS = Film
- AS = Foreign Languages
- AS = History
- AS = Judaic Studies
- AS = Liberal Studies
- AS = Mathematics
- AS = Music
- AS = OASIS
- AS = Philosophy
- AS = Physics
- AS = Political Science
- AS = Psychology
- AS = Radio/TV
- AS = Sociology & Anthropology
- AS = Statistics
- AS = Theatre
- AS = Women's Studies
- BA = Accounting
- BA = Business
- BA = Economics
- BA = Finance
- BA = Management
- BA = Management Information System
- BA = Marketing
- ECS = Air Force ROTC-Aerospace
- ECS = Civil & Environmental
- ECS = Electrical Eng
- ECS = Engineering
- ECS = Engineering Technology
- ECS = Industrial & Management
- ECS = Military Science
- ED = Child, Family & Comm Services
- ED = Education
- ED = Ed Research, Tech & Lead
- ED = Educational Foundations
- ED = Educational Studies
- ED = Human Services/Wellness
- ED = Instructional Programs
- ED = Teaching & Learning Principles
- HM = Hospitality Management
- HPA = Communicative Disorders
- HPA = Criminal Justice & Legal Studies
- HPA = Health & Public Affairs
- HPA = Health Information Management
- HPA = Health Professions
- HPA = Molecular & Microbiology
- HPA = Nursing
- HPA = Public Administration
- HPA = Social Work
UCF Courses and Descriptions

Finding a Course in this List: The UCF courses in this section are listed alphabetically by prefix. Consult the “Common Course Numbering System” section of the Undergraduate Catalog for additional information.

Availability of Courses: The University does not offer all of the courses listed in this Undergraduate Catalog each academic year, academic semester, or term. Consult the online Class Schedule at https://my.ucf.edu for those courses offered each semester/term.

At the end of each course description is information on the planned scheduling of the course, (Fall, Spring or Occasional-department scheduled, Odd-Even based on year of term), and any applicable Material and Supply (M&S) Fee.


ACG 2071 BA-ACCT 3(3,0) Principles of Managerial Accounting: PR: ACG 2021 and MAC 1105 or equivalent. The purpose of this class is to thoroughly familiarize the student with the various uses of accounting information for planning and control. Fall, Spring.

ACG 3082 BA-ACCT 3(3,0) Accounting For Non-Business Majors: PR: Junior Standing. Accounting and reporting from an investment and managerial decision making perspective. Occasional.

ACG 3131 BA-ACCT 3(3,0) Financial Accounting Concepts and Analysis: PR: Junior Standing, Accounting major or minor, and ACG 2021, MAC 1105, and ECO 2013, ECO 2023, and ACG 2071 with a grade of “C” or better. Technical knowledge about accounting measurement, and disclosure plus the study of how accounting reports are analyzed, and interpreted by external users. Fall, Spring.

ACG 3141 BA-ACCT 3(3,0) Intermediate Financial Accounting: PR: Accounting major or minor, ACG 3131 with a grade of “C” or better. Accounting theory and practice related to preparation, and interpretation of external financial statements. Fall, Spring.

ACG 3361 BA-ACCT 3(3,0) Cost Accounting I: PR: Junior standing, Accounting major or minor, and ACG 3131, MAC 1105, ECO 2013, and ACG 2071 with a grade of “C” or better. Theory and practice of using accounting information for managerial planning, and control as well as in costing, and pricing decisions. Fall, Spring.

ACG 3501 BA-ACCT 3(3,0) Financial Accounting for Governmental and Nonprofit Organizations: PR: Accounting major or minor, and a grade of “C” or better in ACG 2071. Application of the concepts of financial and managerial accounting, and auditing for governmental, and nonprofit organizations. Fall, Spring.


ACG 4401C BA-ACCT 3(3,1) Accounting Information Systems: PR: Accounting major or minor, ACG 3311 and CGS 2100C, with a grade of “C” or better. Manual and computer-based accounting information systems. Fall, Spring.

ACG 4651 BA-ACCT 3(3,0) Auditing: PR: Accounting major or minor, ACG 3141 and ACG 4401C with a grade of “C” or better. The standards, practices, and procedures followed in the audit function. Fall, Spring.

ACG 4671 BA-ACCT 3(3,0) Internal Auditing: PR: Accounting major or minor, ACG 3141 or ACG 3361. Theory and practice of internal auditing and the use of internal auditing in organizational control. Fall, Spring.

ACG 5005 BA-ACCT 1.5(1.5,0) Accounting Foundations: PR: Acceptance to Graduate Study. Accounting and reporting from an investment and managerial decision making perspective. Fall, Spring.


ACG 5346 BA-ACCT 3(3,0) Advanced Managerial Accounting: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and ACG 3361 with a grade of “C” or better and ECO 3411. Advanced and current techniques for generation and use of accounting information in managerial decision-making. Fall, Spring.

ACG 5405 BA-ACCT 3(3,0) Advanced Accounting Information Systems: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and ACG 4401C. Design, analysis and evaluation of accounting systems. Fall, Spring.

ACG 5517 BA-ACCT 3(3,0) Financial Accounting and Auditing for Governmental and Nonprofit Organizations: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and ACG 3361 or consent of Graduate Program Advisor. Financial accounting and reporting for governmental and non-profit organizations; financial audit of government and nonprofit organizations. Occasional.

ACG 5625 BA-ACCT 3(3,0) Auditing and EDP: PR: Acceptance for graduate study, ACG 4401C, and ACG 4651. An auditing of accounting procedures followed when a computer is used to process financial records. Occasional.

ADE 4382 ED-TLP 3(3,0) Teaching Adult Learners in Technical Programs: PR: ETV 3365 or CI. Planning for and teaching of adult learners in formal & informal technical settings. Fall.
AFH 3200 CAH-HIST 3(3,0) African History Since 1870: PR: C.I. Sub-Saharan African history from 1870 to the present. Occasional.

AFH 5806 CAH-HIST 3(3,0) The Historiography of Slavery in Africa: PR: graduate status or senior standing or C.I. Course covers the central issues and controversies in the historiography of slavery in Africa. Occasional.

AFR 1101C ECS-AFROTC 1(1,2) The Air Force Today I: History, mission, organization, and doctrine of the United States Air Force and a study of U.S. Strategic Offensive and Defensive Forces. Hands on training. Fall.

AFR 1111C ECS-AFROTC 1(1,2) The Air Force Today II: A brief review of the Army, Navy, and Marine forces. An introduction to special operations and counterinsurgency. Spring.

AFR 2130C ECS-AFROTC 1(1,2) The Development of Air Power I: A study of the development of air power from experiments by 18th-century balloonists to the achievement of combat air power capabilities during World War II. Hands on training. Fall.

AFR 2131C ECS-AFROTC 1(1,2) The Development of Air Power II: A study of the development of aerospace capabilities since World War II, highlighting technological advancements and the role of aerospace power in the contemporary world. Spring.

AFR 2200C ECS-AFROTC 3(3,2) Air Force Leadership and Management I: An introductory study of Air Force management fundamentals, communications skills, and basic leadership skills. Hands on training. Fall.

AFR 2300C ECS-AFROTC 3(3,2) Air Force Evaluation and Management II: PR: AFR 3200 or C.I. A concluding study of Air Force management fundamentals, including performance evaluation skills. Spring.


AMH 200H CAH-HIST 3(3,0) U.S. History: 1492-1877: Survey of U.S. History from 1492-1877. Fall, Spring.


AMH 2020 CAH-HIST 3(3,0) U.S. History: 1877-Present: Survey of U.S. History from 1877 to the present. May be taken before AMH 2010. Fall, Spring.


AMH 3370 CAH-HIST 3(3,0) American Economic History: PR: AMH 2010 and AMH 2020, or C.I. An introduction to the economic development of the U.S., with emphasis on agriculture, labor industrialization, transportation, and banking. Occasional.

AMH 3402 CAH-HIST 3(3,0) History of the South to 1865: PR: AMH 2010 or AMH 2020 or C.I. Development of the southern colonies, beginning sectionalism, the cotton economy, and slavery, Calhoun’s constitutional theories, secession, Civil War and its aftermath. Occasional.

AMH 3403 CAH-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. Occasional.

AMH 3421 CAH-HIST 3(3,0) History of Florida to 1845: PR: AMH 2010 and 2020 or C.I. Occasional.

AMH 3423 CAH-HIST 3(3,0) Florida History 1845-Present: PR: AMH 2010 and 2020 or C.I. Occasional.

AMH 3441 CAH-HIST 3(3,0) History of the Frontier: Eastern America: PR: AMH 2010 and AMH 2020 or C.I. The progression of the westward movement from the colonial settlements to the Mississippi, considered as an interpretive approach to American History. Occasional.

AMH 3442 CAH-HIST 3(3,0) History of the Frontier: Western America: PR: AMH 2010 and AMH 2020 or C.I. The development of the trans-Mississippi West and its impact upon American history. Occasional.


AMH 3547 CAH-HIST 3(3,0) U.S. Military History Since 1900: PR: AMH 2010 and AMH 2020, or C.I. U. S. military history since 1900 emphasizing civil-military relations, warfare, and military developments. Occasional.


AMH 3586 CAH-HIST 3(3,0) History of the Hispanic Minorities in the U.S.: Course begins with 16th century through the modern period. Special emphasis on Chicanos, Puerto Ricans, and Cubans. Occasional.

AMH 3610 CAH-HIST 3(3,0) Sport in America to 1945: PR: AMH 2010, AMH 2020 or C.I. History of sport emphasizing development of professional and collegiate sport to 1945. Occasional.

AMH 3613 CAH-HIST 3(3,0) Sport in America Since 1945: PR: AMH 2010, AMH 2020 or C.I. A history of sport emphasizing development of professional and collegiate sport since 1945. Odd Spring.

AMH 3800 CAH-HIST 3(3,0) Canadian History: Canada since Colonial times and the present, but with emphasis on the period since the British North America Act, 1867. Occasional.

AMH 4110 CAH-HIST 3(3,0) Colonial America, 1607-1763: PR: AMH 2010 and AMH 2020 or C.I. The voyages of discovery, the origins of the thirteen colonies, and their political, economic, social, and religious life in the 17th and 18th centuries. Occasional.

AMH 4112 CAH-HIST 3(3,0) The Atlantic World: PR: C.I. The impact and transforming effect of the Atlantic System on the peoples of Western Europe, Western Africa, the Caribbean and the Americas. Occasional.


AMH 4140 CAH-HIST 3(3,0) Jeffersonian America: PR: AMH 2010 and 2020 or C.I. The Confederation era, the Federalists, Jeffersonian Democracy, and the War of 1812. Occasional.

AMH 4160 CAH-HIST 3(3,0) Jacksonian America: PR: AMH 2010 and 2020 or C.I. The risk of American nationalism, Jacksonian Democracy, the Mexican War, and sectional conflict. Occasional.

AMH 4170 CAH-HIST 3(3,0) Civil War and Reconstruction: PR: AMH 2010 and 2020 or C.I. Reconstruction, and impact of industrialization. Occasional.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Department</th>
<th>Title</th>
<th>Offerings</th>
</tr>
</thead>
<tbody>
<tr>
<td>AML 4265</td>
<td>CAH-ENG</td>
<td>Florida Writers: PR: Grade of C (2.0) or better required in ENC 1102 and ENC 3014. This course will examine writers who have lived in and written about Florida, such as Hemingway, Rawlings, Hurston, and Stevens. Occasional.</td>
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<tr>
<td>AML 4300</td>
<td>CAH-ENG</td>
<td>Major American Authors: PR: ENG 3014. A comprehensive study of selected major American literary figures. May be repeated for credit when content changes. Fall, Spring.</td>
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<tr>
<td>AML 4321</td>
<td>CAH-ENG</td>
<td>Modern American Literature: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Major writers of modern American literature. Occasional.</td>
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</tr>
<tr>
<td>AML 4630</td>
<td>CAH-ENG</td>
<td>Latino/Latina Literature: PR: Grade of C (2.0) or better required in ENC 3014. U.S. literature by writers from Latino and Latina backgrounds. Occasional.</td>
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</tr>
<tr>
<td>AML 5076</td>
<td>CAH-ENG</td>
<td>American Literature: Colonial to Contemporary: PR: Graduate status or senior standing or C.I. Intended for graduate students and future teachers of American Literature, this course surveys texts produced in America from the colonial period to the present. Occasional.</td>
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<tr>
<td>AML 5156</td>
<td>CAH-ENG</td>
<td>Modern American Poetry: PR: Graduate status or senior standing or C.I. Study of trends, modes, major figures (Eliot, Pound, H.D. Lawrence, Stevens, Hart, Crane, Moore, W.C. Williams, etc.) within the Modernist movement in American poetry. Occasional.</td>
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<tr>
<td>ANG 5100</td>
<td>COS-ANTHRO</td>
<td>Archeological Sciences: PR: Graduate standing or C.I. Field and laboratory methods routinely used in archeology and forensic archeology, including instrumentation. Occasional.</td>
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<tr>
<td>ANG 5165</td>
<td>COS-ANTHRO</td>
<td>Maya Field Research: PR: Graduate standing or C.I. Practical application of method and theory during primary in-field research in the Maya area. Spring.</td>
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<tr>
<td>ANG 5179</td>
<td>COS-ANTHRO</td>
<td>Problems in Maya Studies: PR: ANG 6168 or C.I. In-depth study of current methodological, theoretical, and/or topical problems in Maya Studies. Occasional.</td>
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<tr>
<td>ANG 5167</td>
<td>COS-ANTHRO</td>
<td>Maya Hieroglyphs: PR: ANG 6168, graduate status or senior standing, or C.I. The study of Maya writing, the translation of Maya hieroglyphs, and the significance of translations to reconstructions of ancient Maya culture. Occasional.</td>
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<tr>
<td>ANG 5228</td>
<td>COS-ANTHRO</td>
<td>Maya Iconography: PR: ANG 6168 or C.I. Study and interpretation of ancient Maya iconography as reflected in art, artifacts, and constructed features. Odd Spring.</td>
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<tr>
<td>ANG 5272</td>
<td>COS-ANTHRO</td>
<td>Culture, Power and Development: PR: Graduate standing or C.I. Origins and contemporary ramifications of underdevelopment and disempowerment in the world system from an anthropological perspective. Occasional.</td>
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<tr>
<td>ANG 5307</td>
<td>COS-ANTHRO</td>
<td>Peoples and Cultures of Latin America: PR: Graduate standing or C.I. Latin American culture focusing on indigenous history, colonialism, traditional peoples, social change, and modernization. Occasional.</td>
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<tr>
<td>ANG 5341</td>
<td>COS-ANTHRO</td>
<td>Caribbean Cultures: PR: Graduate standing or C.I. Historical and contemporary overview of the societies and cultures of the Caribbean region, including effects of colonization by the Dutch, Spanish, British, and French. Occasional.</td>
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<tr>
<td>ANG 5437</td>
<td>COS-ANTHRO</td>
<td>Anthropology of Tourism: PR: Graduate standing or C.I. Anthropology of tourism in U.S. and world regions, including impacts on local peoples, cultures, and environments. Occasional.</td>
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<tr>
<td>ANG 5467</td>
<td>COS-ANTHRO</td>
<td>Nutritional Anthropology: PR: One course in Social Sciences (min-200-level) and one course in Biological Sciences (min 2000-level) or Consent of Instructor. Graduate status or senior standing or C.I. The biological, social, cultural, psycholological, and environmental influences of food consumption and physiological status. Perspectives are cross-cultural, evolutionary, ecological. Occasional.</td>
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<tr>
<td>ANG 5620</td>
<td>COS-ANTHRO</td>
<td>Language and Culture: PR: Graduate standing in Anthropology or C.I. Language as an integral part of human culture and behavior, focusing on cross cultural issues that affect cultural competency. Occasional.</td>
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<tr>
<td>ANG 5622</td>
<td>COS-ANTHRO</td>
<td>Language, Culture and Pedagogy: PR: Graduate standing or C.I. Linguistic and cultural issues in the learning needs of students from culturally diverse populations. Occasional.</td>
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<tr>
<td>ANG 5623</td>
<td>COS-ANTHRO</td>
<td>Problems in Forensic Anthropology: PR: Graduate standing or C.I. Current issues and topics in forensic anthropology. Occasional.</td>
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<tr>
<td>ANG 5624</td>
<td>COS-ANTHRO</td>
<td>Mortuary Archaeology: PR: Graduate standing or C.I. Funerary customs and human remains; basic data collection, skeletal analysis, and comparative study of mortuary ritual - ancient and modern. Occasional.</td>
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<tr>
<td>ANG 5731</td>
<td>COS-ANTHRO</td>
<td>Funerary Archaeology: PR: Graduate standing or C.I. Current issues and topics in forensic anthropology. Occasional.</td>
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<tr>
<td>ANG 5740</td>
<td>COS-ANTHRO</td>
<td>General Anthropology: An introductory survey of the four major subfields of anthropology: Social Anthropology, Physical Anthropology, Linguistics, and Archaeology. Fall, Spring.</td>
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<tr>
<td>ANG 2100</td>
<td>COS-ANTHRO</td>
<td>Archaeology and the Rise of Human Culture: The evolution of human society from foraging and hunting groups to the earliest cities and states. Fall.</td>
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<tr>
<td>ANG 2410</td>
<td>COS-ANTHRO</td>
<td>Cultural Anthropology (Anthropology II): An introduction to human diversity as exemplified among various cultures and ethnic groups. Even Spring.</td>
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<tr>
<td>ANG 2511</td>
<td>COS-ANTHRO</td>
<td>The Human Species: Human biological variation in an evolutionary perspective. Fall, Spring.</td>
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<tr>
<td>ANT 3115</td>
<td>COS-ANTHRO</td>
<td>Archaeological Method and Theory: A survey of archaeological field and laboratory techniques, including the interpretation of written archaeological reports. Even Fall.</td>
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<tr>
<td>ANT 3142</td>
<td>COS-ANTHRO</td>
<td>Old World Prehistory: A comparative study of social evolution in Africa, Europe, and Asia from the earliest humans to the beginnings of recorded history. Occasional.</td>
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<tr>
<td>ANT 3145</td>
<td>COS-ANTHRO</td>
<td>Archaeology of Complex Societies: Theoretical perspectives on ancient hierarchies of power. Fall.</td>
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<tr>
<td>ANT 3158</td>
<td>COS-ANTHRO</td>
<td>Florida Archaeology: PR: ANT 2000 or ANT 2100 or C.I. Florida prehistory from Paleo-Indian to European contact including archaeological periods, cultural areas, sites, and artifacts. Occasional.</td>
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<tr>
<td>ANT 3164</td>
<td>COS-ANTHRO</td>
<td>Ancient Incas: PR: ANT 2000 or SYG 2000 or ANT 2100 or C.I. The ancient Inca civilization, including examination of pre-Inca cultures and modern Andeans. Uses archaeological, ethnohistorical, historical, and contemporary anthropological sources. Occasional.</td>
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<tr>
<td>ANT 3168</td>
<td>COS-ANTHRO</td>
<td>Maya Archaeology: An examination of the Prehistoric Maya culture focusing on both the archaeology and current issues in the field. Occasional.</td>
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<tr>
<td>ANT 3212</td>
<td>COS-ANTHRO</td>
<td>Peoples of the World: A comparative study of religion, family, politics, philosophy, and other elements of sociocultural organization of pre-literate societies. Fall, Spring.</td>
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<tr>
<td>ANT 3241</td>
<td>COS-ANTHRO</td>
<td>Magic, Ritual, and Belief: Patterns in religious behavior in various societies, with primary emphasis on myth, rite, taboo, and festival social phenomena. Fall, Spring.</td>
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<tr>
<td>ANT 3245</td>
<td>COS-ANTHRO</td>
<td>Native American Religions: PR: ANT 2000 or ANT 2410 or C.I. The religious beliefs of native New World peoples. Occasional.</td>
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<tr>
<td>ANT 3273</td>
<td>COS-ANTHRO</td>
<td>Law and Culture: An introduction to law as an organizing force in society, including a study of primitive forms of law and social control. Occasional.</td>
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<tr>
<td>ANT 3302</td>
<td>COS-ANTHRO</td>
<td>Sex, Gender and Culture: The traditional and changing roles of women and men viewed in a cross-cultural perspective. Fall, Spring.</td>
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</tbody>
</table>
ANT 3311 COS-ANTHRO 3(3,0) Indians of the Southeastern United States: A study of the social and cultural history of the Indians of the Southeast. Occasional.

ANT 3312 COS-ANTHRO 3(3,0) Ethnology of North American Indians: A survey of the aboriginal cultures of North America, with emphasis on the pre-contact cultural condition. Even Spring.


ANT 3314 COS-ANTHRO 3(3,0) Indians of the Northeast Woodlands: PR: ANT 2000 or ANT 2410 or other lower-level social science course. The prehistory, history and culture of Native Americans of the North American Northeast. Occasional.

ANT 3316 COS-ANTHRO 3(3,0) Black/Seminole Relations: PR: 200 level GEP Social Science course or CI. Relationships forged between peoples of African origin and descent and the Seminole Indians. Occasional.

ANT 3318 COS-ANTHRO 3(3,0) Indians of the Northwest Coast: PR: ANT 2000 or ANT 2410 or other lower-level social science course. The prehistory, history and culture of Native Americans of the Northwest Coast of North America. Occasional.

ANT 3319 COS-ANTHRO 3(3,0) Anthropology of Diaspora: PR: ANT 2000 or ANT 2410 or CI. Comparative study of sociocultural constructions of race and the processes of acculturation and resistance in African Diasporas of the New and Old Worlds. Occasional.

ANT 3320 COS-ANTHRO 3(3,0) Indians of the Southwest: PR: ANT 2000. Native American culture types of the southwest: Navajo, Pueblo (Zuni, Hopi, Tewa), Apache (Lipan, Mescalero), and Desert Tradition (Pima, Papago, Havasupai). Occasional.

ANT 3330 COS-ANTHRO 3(3,0) Cultural Ecology of Amazonia: PR: Any 200 level social science course or CI. The cultural ecology and adaptive strategies of native Amazonians, including effects of modernization on resource use and cultural survival. Occasional.


ANT 3358 COS-ANTHRO 3(3,0) Life and Death in Ancient Egypt: PR: Any 200 level Anthropology course. Use of archaeology and physical anthropology to examine the lives and death of both common citizens and kings in Ancient Egypt (3200 BCE-AD 600). Occasional.

ANT 3363 COS-ANTHRO 3(3,0) Anthropology of Japan: An examination of Japanese culture and its contemporary behavioral and organizational patterns by drawing upon archaeology, cultural history, linguistics, cultural anthropology, and social organization. Occasional.

ANT 3541 COS-ANTHRO 3(3,0) Biobehavioral Anthropology: An introduction to the study of human behavior in terms of mutual interaction between human biology and cultural environments. Spring.

ANT 3550 COS-ANTHRO 3(3,0) Primatology: PR: ANT 2511 or CI. Study of species from the Order Primates, including their morphology, ecology, behavior, and geographic distribution. Occasional.

ANT 3640 COS-ANTHRO 3(3,0) Language and Culture: PR: Sophomore standing. The study of language in a non-western setting; language and behavior; language and perception. Spring.

ANT 3701 COS-ANTHRO 3(3,0) Applied Anthropology: PR: ANT 2000 or CI. Application of anthropological methods to current human problems such as the environment, migration, globalization and health. Occasional.

ANT 3949 COS-ANTHRO 0(0,8) Cooperative Education in Anthropology: PR: Departmental permission required before registering. Cooperative education experience in anthropology. May be repeated. Graded S/U. Occasional.

ANT 4034 COS-ANTHRO 3(3,0) History of Anthropological Thought: The exploration of the intellectual foundations of modern anthropology. Spring.

ANT 4101 COS-ANTHRO 3(3,0) Archaeological Sciences: PR: ANT 2511, or ANT 2100, or CI. Methods and instrumentation routinely used in archaeology and forensic archaeology. Spring.

ANT 4144 COS-ANTHRO 3(3,0) Prehistory of North America: PR: Any lower level course in the social sciences. The rise of North American Native culture from the earliest evidence of human occupation in the New World, e.g., the Folsom, Clovis, Sandia, etc., to the time of contact with European cultures. Occasional.

ANT 4153 COS-ANTHRO 3(3,0) North American Archaeology: PR: Any lower level social science course. The cultural development of Native North Americans from prehistoric times to the period of the first European contact. Occasional.

ANT 4180C COS-ANTHRO 3(1,4) Seminar in Laboratory Analysis: The processing of archaeological finds from excavation through publication. May be repeated for credit. Spring.

ANT 4184 COS-ANTHRO 3(3,0) Mortuary Archaeology: PR: ANT 2000, or ANT 2100, or ANT 2511 or CI. Archaeological interpretations of death; basic data collection, skeletal analysis, and comparative study of mortuary ritual - both ancient and modern. Occasional.


ANT 4308 COS-ANTHRO 3(3,0) Gender Issues in Latin America: PR: Completion of a lower-level social science course or its equivalent. Issues of gender in Latin America through an anthropological approach, both theoretical and practical, with special attention to women's lives. Occasional.

ANT 4332 COS-ANTHRO 3(3,0) People and Cultures of Latin America: PR: ANT 2000, or SYG 2000, or PSY 2012 or CI. History and society of the peoples of Latin America, emphasizing patterns of subsistence and social organization. Odd Fall, Spring.


ANT 4352 COS-ANTHRO 3(3,0) African Societies and Cultures: PR: ANT 2000 or SYG 2000 or CI. Anthropological survey of Africa examining the social, cultural, and economic diversity of the continent over time. Occasional.

ANT 4354 COS-ANTHRO 3(3,0) Postcolonial Africa: PR: ANT 2000 or SYG 2000 or CI. Cultural change and continuity in contemporary Africa, ethnography of postcolonial social and cultural issues including globalization, health, economics, peace and stability. Occasional.

ANT 4438 COS-ANTHRO 3(3,0) Anthropology of Tourism: PR: ANT 2000, or SYG 2000, or PSY 2012 or CI. Social theory of tourism; anthropology of tourism in U.S. and world regions, including impacts on local peoples, cultures, and environments. Occasional.

ANT 4462 COS-ANTHRO 3(3,0) Medical Anthropology: PR: ANT 2000 or ANT 2511 or CI. The field of medical anthropology. Topics will include theories, methods, and applications. Occasional.

ANT 4467 COS-ANTHRO 3(3,0) Nutritional Anthropology: PR: One 2000 level course in social sciences and one 2000 level course in biological sciences or CI. Psychological, biological, social, cultural, and environmental influences of food consumption and physiological status. Perspectives are cross-cultural, ecological and evolutionary. Occasional.

ANT 4516 COS-ANTHRO 3(3,0) Human Biological Diversity: PR: ANT 2511 or BSC 2010C or CI. Human biological variation and adaptation. Occasional.

ANT 4521C COS-ANTHRO 3(3,0) Forensic Anthropology: PR: ANT 2511 or CI. The study of human skeletal remains in relation to a legal context. Occasional.


ANT 4528C COS-ANTHRO 5(3,3) Advanced Forensic Anthropology: PR: ANT 4521C. Advanced laboratory methods in forensic anthropology, including skeletal analysis and the application of archaeological techniques to the recovery of human remains. Even Spring.

ANT 4586 COS-ANTHRO 3(3,0) Human Origins: PR: ANT 2511. The fossil evidence for human evolution from Miocene hominoids through the Australopithecines and the earliest members of the genus Homo. Spring.

ANT 4702 COS-ANTHRO 3(3,0) Culture, Power and Development: PR: ANT 2000, or SYG 2000, or PSY 2012 or CI. Anthropological perspective on origins and contemporary ramifications of underdevelopment and disempowerment in the world system. Occasional.
### UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Fee</th>
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</thead>
<tbody>
<tr>
<td>ANT 4824</td>
<td>COS-ANTHRO 9(9,0)</td>
<td></td>
<td>Advanced Archaeological Fieldwork: PR: Students admitted only with permission of instructor. Supervised archaeological fieldwork. Spring.</td>
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<tr>
<td>ARA 1120</td>
<td>CAH-LANG 4(4,1)</td>
<td></td>
<td>Elementary Arabic Language and Civilization I: Introduces the student to Arabic language skills. Open only to students with no experience in the language. Fall.</td>
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<tr>
<td>ARA 1120H</td>
<td>CAH-LANG 4(4,1)</td>
<td></td>
<td>Honors Elementary Arabic Language and Civilization I: PR: Permission of Honors. Introduction to Arabic language skills. Open only to students with no experience in the language. Honors level credit. Occasional.</td>
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<tr>
<td>ARA 2200</td>
<td>CAH-LANG 3(3,1)</td>
<td></td>
<td>Intermediate Arabic Language and Civilization: PR: ARA 1121 or C.I. Development of language skills and cultural knowledge at the intermediate level. Occasional.</td>
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<tr>
<td>ARE 2011</td>
<td>ED-CFCS 3(3,0)</td>
<td></td>
<td>Early Childhood Art and Creativity: An examination of developmental patterns in children's artistic behaviors and appropriate instructional strategies to be implemented. Occasional. M&amp;S fee: $5.00</td>
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<tr>
<td>ARE 3944</td>
<td>CAH-ART 3(2,3)</td>
<td></td>
<td>Community Arts Practicum: PR: C.I. A supervised experience for students to facilitate art programming in a variety of community settings. Occasional.</td>
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<tr>
<td>ARE 4250</td>
<td>ED-TLP 3(3,0)</td>
<td></td>
<td>Art for Exceptionalities: PR: EDG 4233 and at least junior standing or C.I. Concepts, principles, and methods of integrating art processes into the education of students with physical, emotional, and mental disabilities. Occasional.</td>
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<tr>
<td>ARE 4262</td>
<td>CAH-ART 3(3,0)</td>
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<td>Methods in Art Administration: PR: ARH 3820. Theories and methodologies for designing, implementing and administering art programs for a variety of populations. Occasional.</td>
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<tr>
<td>ARE 4251</td>
<td>ED-TLP 3(2,1)</td>
<td></td>
<td>Teaching Art in the Elementary School: PR: EDF 4214 and EDG 4233. 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. Fall. M&amp;S fee: $5.00</td>
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<tr>
<td>ARE 4352</td>
<td>ED-TLP 3(2,1)</td>
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<td>Teaching Art in the Secondary School: PR: EDF 4214, and EDG 4233. 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. Spring. M&amp;S fee: $5.00</td>
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<tr>
<td>ARE 4356</td>
<td>ED-TLP 3(3,1)</td>
<td></td>
<td>Teaching Art Appreciation &amp; Criticism in the Classroom: PR: ARH 250H and ARH 250I. 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. Fall. M&amp;S fee: $5.00</td>
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<tr>
<td>ARE 4453</td>
<td>ED-TLP 3(3,0)</td>
<td></td>
<td>Studio Experiences in Art Education: PR: Completion of all Art Education Program Prerequisites or C.I. Materials available for instruction in public schools will be explored in depth in relation to their appropriateness and productive qualities. May be repeated for credit. Spring. M&amp;S fee: $5.00</td>
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<tr>
<td>ARE 4945</td>
<td>CAH-ART 12(0,12)</td>
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<td>Community Arts Internship: PR: C.I. An on-site in-depth experience for community arts majors with a concentration in administration, education, or therapeutic experience. Occasional.</td>
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<tr>
<td>ARE 5252</td>
<td>ED-TLP 3(2,1)</td>
<td></td>
<td>Art for Exceptionalities: Principles, concepts, methods of integrating art processes into the education of the physically, emotionally, and mentally handicapped. Occasional.</td>
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<tr>
<td>ARE 5255</td>
<td>ED-TLP 3(2,1)</td>
<td></td>
<td>Arts in Recreation: Art activities and experiences appropriate for use in playground, leisure services, occupational orientation and other recreational areas. Occasional.</td>
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<tr>
<td>ARE 5359</td>
<td>ED-TLP 4(4,0)</td>
<td></td>
<td>Teaching Art K-12: PR: Admission to M.A. in Art Education, graduate standing or C.I. Transition from university art practices to public school teaching of art. Organize, design, and analyze art learning for students K-12. Occasional. M&amp;S fee: $5.00</td>
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<tr>
<td>ARE 5454</td>
<td>ED-TLP 3(3,0)</td>
<td></td>
<td>Studio Experiences in Art Education: PR: Graduate admission or C.I. Materials available for instruction in public schools will be explored in depth in relation to their appropriateness and productive qualities. May be repeated for credit. Spring. M&amp;S fee: $5.00</td>
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<tr>
<td>ARE 5648</td>
<td>ED-TLP 3(3,0)</td>
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<td>Contemporary Visual Arts Education: PR: ARE 4443 or C.I. Continued study of current programs and innovations in public school Visual Arts Programs. Occasional.</td>
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<tr>
<td>ARH 2050</td>
<td>CAH-ART 3(3,0)</td>
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<td>History of Western Art I: Painting, sculpture and architecture from the Prehistoric Era through the Renaissance. Occasional.</td>
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<tr>
<td>ARH 2050H</td>
<td>CAH-ART 3(3,0)</td>
<td></td>
<td>Honors History of Western Art I: PR: Permission of Honors. Painting, sculpture and architecture from the Prehistoric Era through the Renaissance, with honors content. Occasional.</td>
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<tr>
<td>ARH 2051</td>
<td>CAH-ART 3(3,0)</td>
<td></td>
<td>History of Western Art II: Painting, sculpture and architecture from the Baroque through the 20th century. Fall, Spring.</td>
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<tr>
<td>ARH 2051H</td>
<td>CAH-ART 3(3,0)</td>
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<td>Honors History of Western Art II: PR: Permission of Honors. Painting, sculpture and architecture from the Baroque through the 20th century, with honors-level content. Occasional.</td>
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<tr>
<td>ARH 2500</td>
<td>CAH-ART 3(3,0)</td>
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<td>History of Non-Western Art: Major visual arts in various non-Western cultures. Fall, Spring.</td>
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<tr>
<td>ARH 3454</td>
<td>CAH-ART 3(3,0)</td>
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<td>Happenings and Conceptual Art: PR: Junior Standing or C.I. Aesthetic and social significance of &quot;Total Art&quot; in its attempt to break down customary distinctions between life and art. Occasional.</td>
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<tr>
<td>ARH 3471</td>
<td>CAH-ART 3(3,0)</td>
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<td>Art in the Last 25 Years: PR: ARH 250H and ARH 250I or C.I. A seminar for upper-level art students to examine current trends in the visual arts. Occasional.</td>
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<tr>
<td>ARH 3520</td>
<td>CAH-ART 3(3,0)</td>
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<td>African Art: PR: Junior status, ARH 250H, or C.I. Art objects produced in Africa and African sites; with some consideration of arts of the African Diaspora. Occasional.</td>
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<tr>
<td>ARH 3570</td>
<td>CAH-ART 3(3,0)</td>
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<td>Ceramics of the Muslim World: PR: ARH 250H or C.I. Islamic Art and the stylistic and technical characteristics of the period, in contrast to pre-Islamic or other civilizations such as the ancient Greeks, Egyptians, Babylonians, and Chinese. Occasional.</td>
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<tr>
<td>ARH 3610</td>
<td>CAH-ART 3(3,0)</td>
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<td>American Art: PR: ARH 250H and ARH 250I 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. Occasional.</td>
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<tr>
<td>ARH 3670</td>
<td>CAH-ART 3(3,0)</td>
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<td>20th Century Latin American Art: PR: ARH 250H and ARH 250I or C.I. Art of the modern era (1820 to 1890) in the Caribbean and South America, issues and characteristics of art as they reflect the cultural evolution of Latin America. Occasional.</td>
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<tr>
<td>ARH 3673</td>
<td>CAH-ART 3(3,0)</td>
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<td>Modern Art of Mexico: PR: ARH 250H or ARH 250I or C.I. Modern art of Mexico from the Mexican Academy post-independence to the 1980's. Occasional.</td>
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</tr>
</tbody>
</table>
ARH 3683 CAH-ART 3(3,0)
Southern Folk Arts: PR: Junior Standing or C.I. This course will explore contemporary issues related to folk art including definition, collecting, marketing, art criticism, tradition, innovation, and its relationship to the so-called fine arts and popular arts. Occasional.

ARH 3710 CAH-ART 3(3,0)
History of Photography I: PR: Junior Standing or C.I. History of still photography from its earliest inception to 1900. The content of this course is designed for art majors. Occasional.

ARH 3711 CAH-ART 3(3,0)
History of Photography II: PR: Junior Standing or C.I. History of still photography from the early 20th century to the present. The content of this course is designed for art majors. Occasional.

ARH 3720 CAH-ART 3(3,0)
History of Prints: PR: ARH 2050 and ARH 2051 or C.I. History of printmaking in the Western world, surveying works by the "great printmakers." Occasional.

ARH 3820 CAH-ART 3(3,0)
Visual Arts Administration Vitas: PR: Junior Standing or C.I. Grant applications; Personnel; copyright laws; museum administration and film. Occasional.

ARH 4170 CAH-ART 3(3,0)
Greek & Roman Art: PR: ARH 2050 or HUM 3431 and ENC 102 or C.I. A study of the art and architecture of the ancient civilizations of the Mediterranean, comprising Greece, Etruria, and Rome. Occasional.

ARH 4200 CAH-ART 3(3,0)
Medieval Art: PR: ARH 2050 and ARH 2051. Medieval Art from the 6th through 14th centuries, including painting, architecture, sculpture and illuminated manuscripts. Occasional.

ARH 4310 CAH-ART 3(3,0)
Italian Renaissance Art: PR: ARH 2050 and ARH 2051 or C.I. Italian Art and architecture from 1300 to 1600. Occasional.

ARH 4350 CAH-ART 3(3,0)
Baroque Art: PR: ARH 2050 and ARH 2051 or C.I. A study of European Art in the 17th and 18th centuries. Occasional.

ARH 4430 CAH-ART 3(3,0)
19th Century Art: PR: ARH 2050 and ARH 2051. A survey of the trends and developments in art during the 19th century, including the art of America and of Western Europe. Occasional.

ARH 4450 CAH-ART 3(3,0)
20th Century Art: PR: ARH 2050 and ARH 2051 or C.I. A survey of the art from Fauvism, Futurism, Cubism to the art of the present. Occasional.

ARH 4545 CAH-ART 3(3,0)
Art of India: PR: Junior Standing or C.I. Art and architecture of India from prehistoric times through the Gupta, Raiput, and Muslim periods. Occasional.

ARH 4655 CAH-ART 3(3,0)
Meso American Art: PR: Junior Standing or C.I. A survey of the art of Mexico and Central America, from the Pre-Columbia, through the Spanish Colonial, to the 20th century. Occasional.

ARH 4800 CAH-ART 3(3,0)

ARH 4892 CAH-ART 3(3,0)
Women in Art: PR: ARH 2050 and ARH 2051 or C.I. A survey of women artists from ancient times to the present as well as a study of the role Aesthetics and ideology have played in determining representations of women in art. Occasional.

ARH 5897 CAH-ART 3(3,0)
Advanced Seminar in Art History: PR: ARH 2050 and ARH 2051 or C.I. Research methods on various topics including: major artist, monument, cultural period or theme. Occasional.

ART 2130 C AH-ART 3(3,0)
Fibers & Fabrics: Design and production training in surface design, floor loom weaving and fiber sculpture. Occasional. M&S fee: $5.00

ART 2160C ED-TLP 2(2,3)

ART 2201C CAH-ART 3(2,4)
Design Fundamentals-Two Dimensional: PR: ART 2820. Priority given to students whose major requires this course. Materials, processes, form. Emphasis on two-dimensional design problems, including problems in black and white and basic color theory. Fall, Spring. M&S fee: $15.00

ART 2201H CAH-ART 3(2,4)
Honors Design Fundamentals-Two Dimensional: PR: ART 2820. Priority given to students whose major requires this course. With Honors content. M&S fee: $15.00

ART 2203C CAH-ART 3(2,4)
Design Fundamentals-Three Dimensional: PR: ART 2820 or C.I. Priority given to students whose major requires this course. Basic three-dimensional design using the various sculptural media. Fall, Spring. M&S fee: $15.00

ART 2300C CAH-ART 3(2,4)
Drawing Fundamentals I: PR: ART 2820 or C.I. Priority given to students whose major requires this course. Drawing as a means of formal organization. Introduction to problems in drawing methods and media. Emphasis on description techniques. Fall, Spring. M&S fee: $10.00

ART 2300H CAH-ART 3(2,4)

ART 2301C CAH-ART 3(2,4)
Drawing Fundamentals II: PR: ART 2300C and ART 2820 or C.I. Priority given to students whose major requires this course. Continuation of ART 2300C. Fall, Spring. M&S fee: $10.00

ART 2394 CAH-ART 3(3,0)
Drawing: Computer as a Medium: Object drawing, using the computer and drawing stylus as a medium. Occasional.

ART 2400C CAH-ART 3(2,4)
Beginning Printmaking: Basic elements and techniques of printmaking covered. Relief, intaglio, and lithography. Assignments include practical application of printmaking as drawing tool. Occasional.

ART 2500C CAH-ART 3(2,4)
Beginning Painting: PR: ART 2300C, ART 2201C, or C.I. Methods and materials of the painter. Introduction to the problems in painting. Occasional. M&S fee: $15.00

ART 2701C CAH-ART 3(2,4)
Sculpture: PR: Three semester hours in three-dimensional work, ART 2201C, ART 2300C, ART 2300C, ART 2301C. Odd Fall. M&S fee: $20.00

ART 2754C CAH-ART 3(2,4)
Beginning Ceramics: PR: ART 2201C or C.I. Basic concepts of ceramic design, experience in processes of forming, decorating, glazing, and firing pottery. Fall, Odd Spring. M&S fee: $55.00

ART 2820 CAH-ART 3(3,0)
Art as Interface: An overview of art department specializations, and selected historical and theoretical information influencing the art curriculum. Examination of aesthetic characteristics shared by the various disciplines and how knowledge of these data is used by the profession to share information with the community. Fall, Spring.

ART 2820H CAH-ART 3(3,0)
Honors Art as Interface: PR: Consent of Honors. An overview of Art department specializations, and selected historical and theoretical information influencing the art curriculum. Aesthetic characteristics shared among the disciplines and their use by the profession. With Honors content. Occasional.

ART 3161 CAH-ART 3(3,0)
Mixed Media: PR: ART 2201C, ART 2303C, ART 2300C, ART 2301C. Concepts and techniques involving the creation of art objects by integrating painting, sculpture, drawing, design, and art history. Occasional.

ART 3332C CAH-ART 3(2,4)

ART 3433C CAH-ART 3(2,4)

ART 3504C CAH-ART 3(2,4)
Intermediate Painting: PR: ART 2201C, ART 2303C, ART 2300C, ART 2301C. Reinforces and extends methods and materials content of ART 2500C, and deals with issues of figurative painting. Fall, Even Spring. M&S fee: $15.00

ART 3616C CAH-ART 3(3,0)
Animation Production Methods: PR: ART 2820C, ART 2201C, ART 2300C, ART 2301C, C.I. The development of a computer animation piece. All aspects of production will be covered. May be repeated for credit. Occasional. M&S fee: $15.00

ART 3618C CAH-ART 3(3,0)
Post-Production Design: PR: Accepted into Animation program. Special effects and compositing for computer animation and film. Focus on the use of After Effects, Premier and Photoshop software. Occasional.
ART 3643C CAH-ART 3(3,0)
Digital Effects & Compositing: PR: Animation major. Special effects and compositing for computer animation and film. Focus on the use of Alter Effects, Premiere and Photoshop or comparable software. Fall, Spring. M&S fee: $35.00

ART 3760C CAH-ART 3(2,4)

ART 3764C CAH-ART 3(2,4)
Ceramic Handbuilding I: PR: Junior standing. Application of a variety of ceramic handbuilding procedures, including design, glaze application and firing process. Occasional. M&S fee: $35.00

ART 3833C CAH-ART 3(4,2)
Processes and Ideas in Art: PR: Junior Standing. This course emphasizes the development of individual creativity and the generation of new insights concerning artistic expression. These "formative activities" must be manifested by students in the form of small sculptures and/or other forms of creativity. Occasional.

ART 3950 CAH-ART 0(0,0)

ART 4132C CAH-ART 3(2,4)
Advanced Fiber And Fabrics: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2303C, and a satisfactory portfolio review or C.I. Technical design and production, including non-woven weaving processes. May be repeated for credit. Occasional. M&S fee: $5.00

ART 4173 CAH-ART 3(3,0)
The Artist Book: PR: ART 2201C and ART 2203C. Course will explore the definition of book from traditional hand-made to contemporary artist book. Students will redefine its elements, structure and content and be exposed to binding and printing methods in book production. Fall, Even Spring. M&S fee: $25.00

ART 4226C CAH-ART 3(3,3)

ART 4320C CAH-ART 3(2,4)

ART 4402C CAH-ART 3(2,4)
Advanced Printmaking: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Advanced process in printmaking. May be repeated for credit. Even Fall, Spring. M&S fee: $30.00

ART 4505C CAH-ART 3(2,4)
Advanced Painting: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3504C, and a satisfactory portfolio review or C.I. Advanced problems in painting. May be repeated for credit. Fall, Spring. M&S fee: $35.00

ART 4634C CAH-ART 3(3,1)

ART 4710C CAH-ART 3(2,4)
Advanced Sculpture: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2701C, and a satisfactory portfolio review or C.I. May be repeated for credit. Fall, Spring. M&S fee: $50.00

ART 4765C CAH-ART 3(2,4)
Ceramic Handbuilding II: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2754C, and a satisfactory portfolio review or C.I. Technical skills in manipulating form, function, volume, color and surface texture. Occasional. M&S fee: $35.00

ART 4780C CAH-ART 3(2,4)

ART 4783C CAH-ART 3(2,4)
Advanced Ceramics: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3760C, and a satisfactory portfolio review or C.I. Advanced problems in the ceramic process. May be repeated for credit. Fall, Spring. M&S fee: $34.99

ART 4786C CAH-ART 3(2,4)
Ceramic Raw Material: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. An in-depth understanding of the singular and diverse properties of clay and glaze materials. Occasional. M&S fee: $35.00

ART 4935 CAH-ART 3(3,1)
BFA Exhibit/Seminar: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, must complete Studio course for BFA, and a satisfactory portfolio review or C.I. This course is designed to prepare B.F.A. students for B.F.A. Exhibition. Spring. M&S fee: $15.00

ART 4945 CAH-ART 6(0,6)
C.R.E.A.T. Project: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, FIL 4288C, and a satisfactory portfolio review or C.I. A practicum in which specialists from Art, Film, Computer Science and other humanities design and develop a project in partnership with industry. Occasional.

ART 4954 CAH-ART 3(3,0)
Scottland Study Abroad: PR: ART 2280, ART 2201C, ART 2301C or C.I. Study abroad in Edinburgh, Scotland. May be repeated for credit. Occasional.

ART 4971 CAH-ART 3(3,0)

ART 5109C CAH-ART 3(2,4)
Multi-Cultural Crafts Design: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, grade status or senior standing, or C.I. The content of this course will include an appreciation for and the production of Western and Non-Western art forms. Occasional.

ART 5280C CAH-ART 3(3,3)
Serial Content & Classic Form I: PR: Admission to MFA. Studio course exploring serial imaging history, pictographs, alphabet development, typographic design, and the computer as sequenced design concepts and tools. Fall.

ART 5284 CAH-ART 3(3,0)
Design Theory and Methods: PR: Admission to MFA or C.I. Introduction to semiotic theory, communication theory, perceptual codes, human factors and visual rhetoric. Fall.

ART 5670C CAH-ART 3(2,4)

ART 5694 CAH-ART 3(3,0)
Crosscultural Electronic Art & Design: PR: Admission to MFA. Explores digital/electronic art and technology from mid 20th century to present. Explores key electronic artists and issues of the "ars electronica" into the present. Spring.

ART 5695 CAH-ART 3(3,0)
WebArt I: PR: Admission to MFA. Students will explore the web and experiment with pertinent software, as well as design and implement websites. Projects will be determined at the outset of each semester. Spring.

ART 5696 CAH-ART 3(3,0)
Art, Design and Human Interactions: PR: Admission to MFA. Exploration and design of interface interactions systems and technologies in contemporary society and culture including place making, way finding, electronic interface design, and publication design. Spring.

ART 5698 CAH-ART 3(3,0)
Concourse I: PR: ART 5910 and ART 5280C and ART 5694, or C.I. Digital reproduction of studio works. Fall.

ART 5745 CAH-ART 3(3,0)
Physical and Virtual Sculpture: PR: Acceptance to MFA in Studio Art and the Computer or C.I. A course exploring historical (tactile) and contemporay (virtual) approaches to the creation of 3D sculptural objects. Occasional.

ART 5811C CAH-ART 3(3,1)
The Professional Practice of Art: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C- (no graduate level prerequisite), graduate status or senior standing, or C.I. Seminar class on political information pertaining to professional practices in the art world. Overview of inventory processing, accounting, and the marketing of art. Fall. M&S fee: $15.00

ART 5910 CAH-ART 3(3,0)
Studio Concentration I: PR: Admission to MFA. Course is the primary course for production of studio work. Students will meet periodically with faculty to discuss progress. Professor will meet with the whole class periodically in order to facilitate a group critique of work completed. May be repeated for credit. (2 times). Fall, Spring.

ART 5934 CAH-ART 3(3,0)

ART 5941 CAH-ART 1(1,0)
Graduate Practicum I: PR: Web Art I, graduate status, or C.I. Candidates with cross-disciplinary interests will discuss and analyze issues in digital art making via the internet. Students will use this information to develop projects in their specialization. Occasional.

ASH 3222 CAH-HIST 3(3,0)

ASH 3223 CAH-HIST 3(3,0)
The Modern Middle East: PR: Junior standing or C.I. History of the Middle East and North Africa from the 16th century to the present. Occasional.
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<tr>
<th>Course Code</th>
<th>Department</th>
<th>Title</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ASH 4404</td>
<td>CAH-HIST</td>
<td>China in 19th and 20th Centuries: PR: EUH 2000 and 2001 or C.I. The Mongols in China; coming of the Europeans; social structure; Communist movement; Japanese aggression. Occasional.</td>
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<tr>
<td>ASH 4442</td>
<td>CAH-HIST</td>
<td>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 II; and U.S. occupation. Occasional.</td>
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<tr>
<td>ASH 5227</td>
<td>CAH-HIST</td>
<td>The Arab-Israeli Conflict: PR: Graduate status or senior standing or C.I. This course examines the history of the Arab-Israeli conflict, placing particular emphasis on its origins in 19th century imperialism and Zionism. Occasional.</td>
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<tr>
<td>ASH 5408</td>
<td>CAH-HIST</td>
<td>Colloquium in Modern China: PR: Graduate status or senior standing or C.I. This course explores works of scholarship in modern China including the rise of Communism, Chinese women and Sino-American relations. Occasional.</td>
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<tr>
<td>AST 2002</td>
<td>COS-PHYS</td>
<td>Descriptive survey of solar system, galaxies and universe; physical properties of stars, H-R diagram, stellar evolution, black holes, neutron stars. Fall, Spring.</td>
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<tr>
<td>AST 3402</td>
<td>COS-PHYS</td>
<td>Galaxies and Cosmology: PR: AST 2002, PHY 2053C. Study of the different types of galaxies, their evolution, their relationship to active galaxies and quasars, and the evolution of the universe. Odd Fall.</td>
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<tr>
<td>AST 4142</td>
<td>COS-PHYS</td>
<td>Asteroids, Comets, and Meteorites: PR: AST 2002 or AST 3211. Asteroids, comets, and meteorites and their role in the origin and evolution of our solar system. Occasional.</td>
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<tr>
<td>AST 5165</td>
<td>COS-PHYS</td>
<td>Planetary Astrophysics: PR: Mechanics PHY 3220 and Modern Physics 3101, graduate status or senior standing, or C.I. This course will examine the physical and chemical processes that govern the behavior of the atmosphere of Earth and the other planets. Occasional.</td>
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<tr>
<td>BCH 4103L</td>
<td>COS-CHEM</td>
<td>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. Spring. M&amp;S fee: $45.00.</td>
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<tr>
<td>BOT 3600</td>
<td>COS-BIOL</td>
<td>Ethnobotany: PR: C.I. Historical and modern uses of plants economically important in various cultures. Designed for majors and non-majors. Spring.</td>
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<tr>
<td>BOT 3620C</td>
<td>COS-BIOL</td>
<td>Plants and the Urban Environment: PR: Junior standing or C.I. The selection, placement, propagation and care of ornamental plants in residential and industrial areas. For non-majors only. Occasional. M&amp;S fee: $15.00.</td>
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<tr>
<td>BOT 4503</td>
<td>COS-BIOL</td>
<td>Plant Physiology: PR: PEB 3023 or C.I. A study of mechanisms used by plants to cope with the environment. Occasional.</td>
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<tr>
<td>BOT 4866C</td>
<td>COS-BIOL</td>
<td>Conservation and Management of Native Plants: PR: BSC 4713C, PEB 2044 and/or BOT 4503 or C.I. Identification, conservation, propagation and management of Florida rare, endangered, indicator or reclamation species. Occasional.</td>
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<tr>
<td>BOT 5485C</td>
<td>COS-BIOL</td>
<td>Terrestrial Cryptogams: PR: BOT 4303C, graduate status or senior standing, or C.I. A lecture-laboratory course on the biodiversity and classification of terrestrial-cryptogams (bryophytes, ferns, and fern allies) with special emphasis on those found in Florida. Occasional. M&amp;S fee: $15.00.</td>
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<tr>
<td>BOT 5623C</td>
<td>COS-BIOL</td>
<td>Plant Geography and Ecology: PR: PEB 3044, and graduate status or senior standing or C.I. The study of the abiotic and biotic processes that control the distribution of terrestrial flora at local, landscape, and global scales. Occasional. M&amp;S fee: $15.00.</td>
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<tr>
<td>BSC 1005</td>
<td>COS-BIOL</td>
<td>Biological Principles: A study of various biological factors which affect the health and survival of man in modern society. Designed for non-majors. Fall, Spring.</td>
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<tr>
<td>BSC 1005H</td>
<td>COS-BIOL</td>
<td>Biological Principles-Honors: PR: Permission of Honors. Biological factors that affect dependence on the environment; the role of human population preserving ecological integrity. Occasional.</td>
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<tr>
<td>BSC 1005L</td>
<td>COS-BIOL</td>
<td>Biological Principles Laboratory: CR: BSC 1005. The laboratory to accompany BSC 1005. Fall, Spring. M&amp;S fee: $15.00.</td>
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<td>Course Code</td>
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<tr>
<td>BSC 1050L</td>
<td>COS-BIOL 1(0,2)</td>
<td>Biology and Environment Laboratory: CR: BSC 1050. The laboratory to accompany BSC 1050. Occasional. M&amp;S fee: $15.00</td>
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<tr>
<td>BSC 2010C</td>
<td>COS-BIOL 4(3,2)</td>
<td>Biology I: PR: High school biology or C.I. Open only to students whose major requires this course. Introduction to quantitative experimentation. May be repeated for credit. Fall, Spring. M&amp;S fee: $24.00</td>
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<tr>
<td>BSC 2011C</td>
<td>COS-BIOL 4(3,3)</td>
<td>Biology II: PR: BSC 2010C or C.I. Open only to students whose major requires this specific course. Continuation of BSC 2010C. Organismal anatomy and physiology as it relates to biodiversity, ecology and evolution. Emphasis on problem solving, analysis, synthesis of information, and applying data effectively. Fall, Spring. M&amp;S fee: $20.00</td>
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<tr>
<td>BSC 3403C</td>
<td>BCBS-M&amp;M 4(3,4)</td>
<td>Quantitative Biological Methods: PR: BSC 2010C, MCB 3020C, CHM 2046. A laboratory course which presents modern methods and instrumentation used in quantitative biological experimentation. Fall, Spring. M&amp;S fee: $25.00</td>
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<tr>
<td>BSC 3404H</td>
<td>BCBS-M&amp;M 4(3,4)</td>
<td>Quantitative Biological Methods-Honors: PR: Consent of Honors, BSC 2010C, MCB 3020C, CHM 2046. A laboratory course which presents the concepts, modern methods, techniques and instrumentation used in quantitative biological and molecular biological experimentation. Honors level content. Fall.</td>
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<tr>
<td>BSC 3424</td>
<td>BCBS-M&amp;M 3(3,0)</td>
<td>Nanobiotechnology: PR: MCB 1310, and either CHM 2046 or PHY 2054C. Biological processes in nano scale interactions with elements of physics &amp; engineering. Occasional.</td>
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<tr>
<td>BSC 3949</td>
<td>COS-BIOL 0(0,8)</td>
<td>Cooperative Education in Biology: PR: Departmental permission required before registering. Cooperative education experience in biology. May be repeated. Graded SU. Occasional.</td>
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<tr>
<td>BSC 4101</td>
<td>COS-BIOL 3(3,0)</td>
<td>History of Biology: PR: BSC 2010C, BSC 2011C and 8 hours in biology or C.I. People and events involved in the development of major biological concepts and disciplines. Suitable for majors and non-majors. Occasional.</td>
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<tr>
<td>BSC 4312C</td>
<td>COS-BIOL 4(3,3)</td>
<td>Marine Biology: PR: PCB 3044 and STA 2023. The biological, ecological, physical and chemical aspects of the world's oceans. Even Spring. M&amp;S fee: $45.00</td>
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<tr>
<td>BSC 4422L</td>
<td>COS-BIOL 1(0,3,12)</td>
<td>Biology Laboratory Techniques: PR: PCB 3044, CHM 2210, or C.I. Individual and small group instruction in current laboratory techniques beyond the scope of typical Biology laboratory. May be repeated for credit, up to a maximum of 4 credits total. Graded SU. Occasional.</td>
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<tr>
<td>BSC 4454</td>
<td>COS-BIOL 2(0,2)</td>
<td>Research in Animal Physiology: PR: PCB 4723. Development of research skills in animal physiology through hands-on experimental design, data collection, use of data analysis software, and communication of results. Occasional.</td>
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<tr>
<td>BSC 4937</td>
<td>COS-BIOL 2(0,2)</td>
<td>Instructional Experiences in Undergraduate Biology: PR: PCB 2010C and PCB 3044, 30 hours and 3.0 gpa. Preparation of undergraduate students to more effectively learn biological concepts by facilitating learning in university level labs. May be repeated for credit. Graded SU. Fall, Spring.</td>
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<tr>
<td>BSC 5408L</td>
<td>COS-BIOL 3(0,9)</td>
<td>Advanced Biology Laboratory Techniques: PR: BS degree, C.I. This course will emphasize those biological techniques and resources necessary for students about to begin thesis research. Individual and small group instruction in current laboratory techniques, literature searches, and hands-on practice of techniques will be stressed. May not be repeated for credit. Occasional. M&amp;S fee: $15.00</td>
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<tr>
<td>BSC 5817</td>
<td>COS-BIOL 3(3,0)</td>
<td>Biology for AP Teachers: PR: Graduate status or senior standing or C.I. Participants will perform and evaluate the 12 required labs, analyze the design and grading of the Exam, and develop a representative program. Occasional.</td>
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<tr>
<td>BTE 4410</td>
<td>ED-TLP 3(3,0)</td>
<td>Course Construction in Business Education: PR: EVT 4540. An overview of the development and implementation of computer-based instruction. Fall.</td>
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<tr>
<td>BUL 3130</td>
<td>BA-ACCT 3(3,0)</td>
<td>Legal and Ethical Environment of Business: PR: Junior standing and business major or minor. Analysis of the law as a dynamic social and political institution in the business environment, including contract law, torts, and ethical consideration. Fall, Spring.</td>
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<tr>
<td>BUL 3130H</td>
<td>BA-ACCT 3(3,0)</td>
<td>Legal &amp; Ethical Environment of Business - Honors: PR: Senior standing and business major or minor. Permission of Honors. Analysis of the law as a dynamic social and political institution in the business environment, including ethical considerations with honors level content. Occasional.</td>
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<tr>
<td>BUL 4540</td>
<td>BA-MAN 3(3,0)</td>
<td>Employment Law: PR: Management major or minor, MAN 3025; CR: MAN 3301. An examination of current employment law and issues/trends in the legal environment impacting human resource management system design, HRM policy and employee relations. Fall, Spring.</td>
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<tr>
<td>BUL 5332</td>
<td>BA-ACCT 3(3,0)</td>
<td>Advanced Business Law Topics: PR: Permission to graduate program, or Management major or minor in term of graduation, BUL 3130. Advanced business law topics including coverage of the Uniform Commercial Code, torts, commercial paper, and secured transactions. Fall, Spring.</td>
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<tr>
<td>BUL 5810</td>
<td>BA-ACCT 3(3,0)</td>
<td>Legal and Social Environment of Business: PR: Admission to graduate program. Analysis of the legal and ethical environment of business, the effects of legislation and regulation on business activity, and the role of law and ethics in the decision-making process. Occasional.</td>
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<tr>
<td>CAP 4453</td>
<td>ECS-CS 3(3,0)</td>
<td>Robot Vision: PR: COP 3530C and MAC 2312, or C.I. Pinhole camera and eye, perspective and orthographic projections, the processing of edges, regions, motion, shading, texture, object, robot arm usage. Fall, Spring.</td>
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<tr>
<td>CAP 4720</td>
<td>ECS-CS 3(3,0)</td>
<td>Computer Graphics: PR: COP 3530C and COP 3560. Image formation, binary vision, rendering and edge detection, shape representation, dynamic scene analysis, texture, stereo and range images, and knowledge representation. Fall.</td>
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<tr>
<td>CAP 5415</td>
<td>ECS-CS 3(3,0)</td>
<td>Computer Vision: PR: COP 3530C, MAC 2312 and COP 3560. Image formation, binary vision, rendering and edge detection, shape representation, dynamic scene analysis, texture, stereo and range images, and knowledge representation. Fall.</td>
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<tr>
<td>CAP 5512</td>
<td>ECS-CS 3(3,0)</td>
<td>Evolutionary Computation: This course covers the field of evolutionary computation, focusing on the theory and application of genetic algorithms. Spring.</td>
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<tr>
<td>CAP 5725</td>
<td>ECS-CS 3(3,0)</td>
<td>Computer Graphics I: Architecture of graphics processors; display hardware; principles of programming and display software; problems and applications of graphics systems. Spring.</td>
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<tr>
<td>CBB 3003</td>
<td>COS-Psych 3(3,0)</td>
<td>Comparative Psychology: PR: PSY 2012. A study of comparative behaviors of lower animals. Occasional.</td>
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</table>
CCE 4003  ECS-CEE  3(3,0)

CCE 4004  ECS-CEE  3(3,0)
Construction Methods: PR: CES 4100C. Construction project evaluation principles along with construction methods for civil and structural systems. Spring.

CCE 4031  ECS-CEE  3(3,0)
Construction Project Management: PR: EGN 3613. Project management in the construction industry. Project financial evaluation on a life cycle basis. Essentials of project management such as estimating scheduling, contracts, and administration. May be repeated for credit. Occasional.

CCE 4034  ECS-CEE  3(3,0)
Construction Estimating and Scheduling: PR: CCE 4003. This course covers construction project estimating and bidding and the preparation of construction schedules. This is followed by in-depth coverage of time and cost control. Fall.

CCE 4402  ECS-CEE  3(3,0)
Construction Equipment and Productivity: PR: CCE 4003, CWR 3201. Selection of appropriate equipment based on operational parameters, principles of construction productivity measurement and analysis, and discrete event simulation. Spring.

CCE 4810C  ECS-CEE  3(2,2)
Construction Design Project: PR: Senior Standing, CCE 4034, and CCE 4004. The preparation and development of a proposal and plan for a construction project, including construction engineering systems, site facilities, construction methods, coordination, and control. Spring.

CCE 4813  ECS-CEE  4(4,0)

CCE 5006  ECS-CEE  3(3,0)
Introduction to Construction Industry: PR: post-bac status or C.I. This course introduces students to the construction industry. Topics include project evaluation, project phases, project delivery systems, contracts, estimating and scheduling drawings and specifications. Research paper required. Occasional.

CCE 5036  ECS-CEE  3(3,0)
Construction Estimation and Scheduling: PR: C.I. Provides students with an understanding of estimating and scheduling of construction projects. Topics include detailed estimates, scheduling and project control Research paper required. Occasional.

CCE 5205  ECS-CEE  3(3,0)
Construction Methods: PR: post-bac status or C.I. This class covers construction project evaluation principles along with construction methods for civil and structural systems. Occasional.

CCE 5406  ECS-CEE  3(3,0)

CCE 5815  ECS-CEE  4(4,0)
Mechanical and Electrical Systems for Buildings: PR: C.I. This course covers the design and construction of mechanical and electrical systems for buildings Research paper required. Occasional.

CCJ 3014  HPA-CJ/LS  3(3,0)
Crime in America: A survey of crime and criminality in the United States, with emphasis on crime data, its weaknesses, and types of criminal behavior. Fall, Spring.

CCJ 3024  HPA-CJ/LS  3(3,0)
Criminal Justice System: An examination of the components and of their interdependence in light of their traditional autonomy. Fall, Spring.

CCJ 3058  HPA-CJ/LS  3(3,0)

CCJ 3450  HPA-CJ/LS  3(3,0)

CCJ 3451  HPA-CJ/LS  3(3,0)
Justice System Technology: PR: CCJ 3024 or C.I. Examination of the relevance of scientific and technological developments to justice systems and their applicability to the operations and management of the systems. Occasional.

CCJ 3483  HPA-CJ/LS  4(4,0)
Labor Relations in Criminal Justice: PR: CCJ 3024 and CCJ 3450 or C.I. Examine the role of public sector labor relations in criminal justice to include management-employee relationships, collective bargaining process, employee organizations, and federal-state laws. Occasional.

CCJ 3520H  HPA-CJ/LS  3(3,0)
Honors Juvenile Offenders: An Integrative Perspective: PR: Permission of Honors. To provide students with an integrative understanding of the social, psychological, and legal dynamics evident in processing juvenile offenders. Occasional.

CCJ 3667  HPA-CJ/LS  3(3,0)
Victims and the Criminal System: CCJ 3024. Course examines victims as they affect the Criminal Justice system, the dimensions of criminal victimization, and victim offender programs. Occasional.

CCJ 4035  HPA-CJ/LS  3(3,0)
Crime and the Media: PR: CCJ 3024 or C.I. Explore how the criminal justice system, criminals, and crime are portrayed in the media and its impact on society and the criminal justice system. Fall, Spring.

CCJ 4076  HPA-CJ/LS  3(3,0)
Crime Analysis: PR: CJE 4654, CJE 4663. Designed to provide advanced data analysis skills that will enable a crime analysis sophisticated methodologies to crime analysis. Occasional.

CCJ 4195  HPA-CJ/LS  3(3,0)
Interviewers & Interrogations in CJ: PR: CCJ 3024 (Criminal Justice System) and CJ Major or C.I. The criminal justice interview process including history of criminal justice interviews, the use of Miranda, non-verbal listening, and the rules of testimonial evidence. Fall, Spring.

CCJ 4296  HPA-CJ/LS  3(3,0)
Famous Crimes & Trials: PR: CCJ 3014 or CCJ 3024 or consent of instructor. A detailed examination of selected famous American crimes and trials since 1900. Occasional.

CCJ 4361  HPA-CJ/LS  3(3,0)
Death Penalty: PR: CCJ 3024. This course provides students an opportunity to analyze and discuss complex issues surrounding the death penalty and the criminal justice system. Occasional.

CCJ 4454  HPA-CJ/LS  3(3,0)
Policy Development in Law Enforcement: PR: CJE 4014. The course is designed to deal with policy development in law enforcement. Major issues of organization, administration, personnel practices and police operations will be addressed. Occasional.

CCJ 4459  HPA-CJ/LS  3(3,0)
Justice Agency Operations: PR: CCJ 3024 and CCJ 3450 or C.I. Elements, functions, and processes essential to the continuing management of various criminal justice agencies, institutions and court systems. Occasional.

CCJ 4463  HPA-CJ/LS  3(3,0)
Cultural Diversity in Criminal Justice: PR: CCJ 3024. This course focuses on the problems and issues associated with race, ethnic and gender relations in the administration of justice in a democratic society. Occasional.

CCJ 4484  HPA-CJ/LS  3(3,0)

CCJ 4486  HPA-CJ/LS  3(3,0)
Criminal Justice Ethics: Focuses on the ethical issues and problems commonly encountered in the criminal justice system (policy courts and corrections). Occasional.

CCJ 4616  HPA-CJ/LS  3(3,0)
Criminal Profiling in Criminal Justice: PR: CCJ 3014. Examines criminal profiling undertaken by law enforcement and prosecution authorities which consists of gathering, reviewing and analyzing evidence pertaining to violent crimes. Occasional.

CCJ 4641  HPA-CJ/LS  3(3,0)
Organized Crime: An examination of organized crime, including structures, history and activities, and of issues surrounding efforts to define and control it. Occasional.

CCJ 4644  HPA-CJ/LS  3(3,0)

CCJ 4651  HPA-CJ/LS  3(3,0)
Drugs and Crime: Focuses on the problems of drugs and drug control in contemporary society. Students will examine the problems of drugs in our society as well as specific strategies used by criminal justice agencies to prevent and control illicit drug use. Fall, Spring.

CCJ 4661  HPA-CJ/LS  3(3,0)
Terrorism: PR: CCJ 3024 and CJE 4014 or C.I. An examination of competing ideologies of a variety of social and political conflicts (both international and domestic) that give rise to terrorism and of the implications for the criminal justice system. Occasional.
UCF Courses and Descriptions

CCJ 4670 HPA-CJ/LS 3(3,0) Women and Crime: This course covers women in criminal justice as offenders and prisoners, as well as crime victims and professionals working in the system. Occasional.


CCJ 4690 HPA-CJ/LS 3(3,0) Sex Offenders and the Criminal Justice System: PR: CCJ 3024. Provides students a better understanding of how the criminal justice system deals with sex offenders and their offenses. Odd Fall, Spring.

CCJ 4701 HPA-CJ/LS 3(3,0) Research Methods in Criminal Justice: Overview of the social science research methodology used in criminal justice, covers the major forms of research designs used by social science and evaluates their strengths and weaknesses. Fall, Spring.

CCJ 4934 HPA-CJ/LS 1-3 (1-3,0) Emergent Criminal Justice Issues: PR: CCJ 3034, CCJ 3024 or C.I. Developing trends and issues in criminal justice facing administrators, practitioners, and researchers. May be repeated for credit. Occasional.

CCJ 5015 HPA-CJ/LS 3(3,0) The Nature of Crime: This course provides an overview of major dimensions of crime in the U.S.: epidemiology of crime, costs of crime, and typologies of crime and criminals. Fall, Spring.

CCJ 5040 HPA-CJ/LS 6(6,0) International Perspectives on Law and Justice: PR: C.I. or graduate standing. Examination of the legal and criminal justice systems of other nations and territories through lecture, seminar, research and field visits. Occasional.

CCJ 5073 HPA-CJ/LS 3(3,0) Data Management Systems for Crime Analysis: PR: graduate standing or C.I. This course is designed to provide the conceptual basis, understanding, and skills necessary for complex crime data manipulation. Fall.


CCJ 5406 HPA-CJ/LS 3(3,0) Research and Technology Implementation: Changing roles of social and physical sciences as related to the objectives and administration of public safety agencies. Occasional.

CCJ 5456 HPA-CJ/LS 3(3,0) The Administration of Justice: This course provides an overview of the criminal justice system and a critical analysis of formal and informal processing of offenders by criminal justice agencies. Fall, Spring.

CCJ 5467 HPA-CJ/LS 3(3,0) Justice and Safety System Manpower: Processes essentials to administration to human resources in criminal justice and public safety agencies; structure and processes for acquisition, training, and maintenance of personnel. Occasional.


CCJ 5675 HPA-CJ/LS 3(3,0) Human Rights & Criminal Justice: PR: Senior scholar or graduate standing or C.I. Provides in-depth analysis of the human rights movement and its potential impact upon criminal law as well as the juvenile and criminal justice systems. Occasional.

CCJ 5704 HPA-CJ/LS 3(3,0) Research Methods in Criminal Justice: An examination of the philosophy and techniques of research as applied in the Criminal Justice field. Fall, Spring.

CCJ 5931 HPA-CJ/LS 3(3,0) Contemporary Criminal Justice Strategies: PR: Graduate standing or C.I. Graduate level analysis of contemporary crime issues and the reactions of the criminal justice system to combat those crimes at both the national and international levels. May be repeated for credit. (2 times). Occasional.

CCJ 5934 HPA-CJ/LS 1(1,0) Criminal Justice Investigative Process: PR: Graduate standing or C.I. Advanced seminar providing students with a broad view of how criminal justice investigative processes operate. Focuses on the roles and responsibilities of agents as investigators. May be repeated for credit. (3 times). Occasional.


CDA 4150 ECS-CS 3(3,0) Computer Architecture: PR: COP 3402 and CDA 3103C. Basic processor design, hardened and microprogrammed control, ALU, memory organization, pipelining, I/O and computer arithmetic. Fall, Spring.

CDA 4150H ECS-CS 3(3,0) Honors Computer Architecture: PR: Permission of Honors and COP 3402 and CDA 3103C. Same as CDA 4150 with Honors level content. Occasional.

CDA 4506C ECS-CS 3(1,2) Design and Implementation of Computer Communication Networks: PR: COP 3502C, MAD 2104 or COT 3100C. Data communication networking technologies (TCP/IP, Ethernet, Gigabit Ethernet, ATM, Frame Relay), products (routers, switches, adapters, cabling). Base design and detailed configuration including hands-on exercises. Fall, Spring.

CDA 4527 ECS-CS 3(3,0) Analysis of Computer Communication Networks: PR: COP 3502C, STA 2033, MAC 2312. Network design using layering. Introduces cabling, topology, architecture, hardware and software. Includes performance and control issues such as congestion control, error control, contention resolution. Occasional.

CDA 5106 ECS-CS 3(3,0) Advanced Computer Architecture I: PR: CDA 4150. Instruction set architectures, processor implementation, memory hierarchy, pipelining, computer arithmetic, vector processing, and I/O. Fall, Spring.

CDA 5110 ECS-CS 3(3,0) Parallel Architecture and Algorithms: PR: COT 4210, CDA 5106. General-purpose vs. special-purpose parallel computers; arrays, message-passing; shared-memory; Taxonomy; parallelization techniques; communication synchronization and granularity; parallel data structures; automatic program restructuring. Occasional.

CDA 5215 ECS-CS 3(3,0) Architecture and Design of VLSI: PR: CDA 4502 or equivalent. Overview of VLSI technology. Logical design of basic subsystems; integrated system design tools; design of a VLSI computer system. Occasional.


CEG 3301 ECS-CEE 3(3,0) Engineering and Environmental Geology: PR: EGN 3310 and GIS 1440 or equivalent. Principles of physical geology, with emphasis on engineering and environmental topics. Study of land forms, geologic maps, geologic structure, weathering, groundwater, mass wasting, and earthquakes. Occasional.

CEG 4101C ECS-CEE 4(3,2) Geotechnical Engineering I: PR: EGN 3331 and CWR 3201. Engineering properties and classification of soils. Design considerations for compaction, seepage, consolidation, and settlement analysis. Fall, Spring. M&S fee: $30.00

CEG 4801C ECS-CEE 3(2,2) Geotechnical Engineering Design: PR: CEG 4101C. Project course on design of foundations and other soil structures using geotechnical design methodologies. Fall, Spring. M&S fee: $15.00

CEG 4812 ECS-CEE 1(1,0) Historical Developments in Civil Engineering: Seminar covering major historical developments in civil engineering. Occasional.

CEG 5015 ECS-CEE 3(3,0) Geotechnical Engineering II: PR: CEG 4101C. Continuation of CEG 4101C with emphasis on shear strength and design factors for earth pressures, bearing capacity, and slope stability. Occasional.

CEG 5700 ECS-CEE 3(3,0) Geo-Environmental Engineering: PR: CEG 4101C. Geotechnical applications to environmental problems: groundwater flow, soil contamination and groundwater contaminant transport, geosynhetics and stability of landfill design, control of contaminated sites. Occasional.

CEN 4020 ECS-CS 3(3,0) Component-based Engineering Software: PR: EEL 4851C, EEL 4882. In-depth treatment of component-based software development including analyst design and implementation of correct and reusable software in different component levels. Occasional.
CGN 4080C ECS-CEE 3(2,2) Civil Engineering Capstone Design: PR: one of the following courses - TTE 4601C, CES 4608C, CES 4709C, CWR 4812C, ENV 4562C, CES 4801C, or CES 4806C. An interdisciplinary capstone design experience requiring problem definition, data collection, analysis of alternatives, economic evaluation of alternatives, and oral and written presentation of final design. Occasional.


CGN 5504C ECS-CEE 3(2,2) Civil Engineering Materials: PR: EGN 3365, EGN 3311, or C.I. Structure, properties, and applications of materials used in civil engineering including concrete, steel, asphalt, wood, soils, and composite materials. Occasional.

CGN 5506C ECS-CEE 3(2,2) Asphalt Concrete Mix Design: PR: CEG 4101C. Properties of asphalt, aggregate and asphalt mixtures, Marshall mix design, Hveem mix design, pavement rehabilitation. Occasional.

CGS 1060C ECS-CS 3(3,0) Introduction to Computer Science: History, typical computer, number systems, control and data flow, peripheral components, memory devices, effects of computers on society, applications of computers. Not open to Computer Science Majors. Fall, Spring. M&S fee: $15.00

CGS 1060H ECS-CS 3(2,2) Honors Introduction to Computer Science: PR: Permission of Honors. History, number systems, control and data flow, peripheral components, memory devices, effects of computers on society, applications of computers. Not open to Computer Science Majors. Occasional. M&S fee: $15.00

CGS 2100C ECS-CS 3(2,1) Computer Fundamentals for Business: Uses of computers and software in business, including business applications, commercial packages, and the internet. Not open to Computer Science Majors. Fall, Spring. M&S fee: $15.00

CGS 2515 ECS-CS 3(3,0) Spreadsheet Concepts: PR: CGS 1060C. Advanced techniques of spreadsheets, charts, macros, objects, database features and data analysis tools. Occasional.


CGS 3175 ECS-CS 3(3,0) Internet Applications: PR: CGS 1060C. HTML coding, using images, sound and animation, advanced text formatting, forms and CGI scripts, introduction to Javascript. Fall, Spring.


CHI 1120 CAH-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. Fall.


CHI 1140H CAH-LANG 4(4,0) Honors Elementary Chinese Language and Civilization: PR: Permission of Honors. Introduces the student to Chinese culture through the major language skills: Listening, speaking, reading and writing. Open only to students with no experience in the language. Honors level content. Occasional.


CHM 1020 COS-CHEM 3(3,0) Concepts in Chemistry: PR: High school Algebra. Concepts will be examined to provide insight into the significant role that chemistry plays in our culture. Intended as a general education course. Fall, Spring.

CHM 1032 COS-CHEM 3(3,0) General Chemistry: PR: MAC 1105 or MGF 1106 or equivalent. An introductory study of the fundamental concepts of chemistry, primarily oriented toward Health Science majors. The "NC" grading policy applies to this course. Fall, Spring.

CHM 1032L COS-CHEM 1(0,3) General Chemistry Laboratory: PR: or CR: CHM 1032. Preference will be given to students whose major requires this course. An introductory study of physical and chemical properties of elements and compounds. Fall, Spring. M&S fee: $45.00

CHM 2045C COS-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. The "NC" grading policy applies to this course. Fall, Spring. M&S fee: $26.00
CHM 2045H COS-CHEM 4(3,3)
Honors Chemistry Fundamentals I: PR: High school chemistry and permission of Honors. Same as CHM 2045 with honors-level content. Fall, Spring. M&S fee: $25.00

CHM 2046 COS-CHEM 3(3,0)
Chemistry Fundamentals II: PR: "C" grade or better in CHM 2045. Continuation of CHM 2045A. Fall, Spring.

CHM 2046H COS-CHEM 3(3,0)
Honors Chemistry Fundamentals II: PR: CHM 2045H and permission of Honors. Same as CHM 2046 with honors-level content. Spring.

CHM 2046L COS-CHEM 1(0,3)
Honors Chemistry Fundamentals Lab: PR: CHM 2045H and CR: CHM 2046L. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry with honors-level content. Spring. M&S fee: $35.00

CHM 2205 COS-CHEM 5(5,0)
Introduction to Organic and Biochemistry: PR: CHM 1032 or equivalent. An introduction to organic chemistry, stressing the chemistry of functional groups and a survey of the biochemistry of proteins, carbohydrates, lipids, and nucleic acids. Spring.

CHM 2210 COS-CHEM 3(3,0)

CHM 2211 COS-CHEM 3(3,0)

CHM 2211L COS-CHEM 2(0,6)
Organic Laboratory Techniques I: PR: CHM 2210. An introduction to the laboratory techniques of organic chemistry, including the preparation, reaction, and analysis of organic compounds. Fall, Spring. M&S fee: $45.00

CHM 3120 COS-CHEM 3(3,0)
Analytical Chemistry: PR: CHM 2046, CHM 2046L. Classical and instrumental analysis. Choice of preferred analytical methods and techniques is emphasized through applications involving both inorganic and organic systems. Fall, Spring.

CHM 3120L COS-CHEM 1(0,3)
Analytical Chemistry Laboratory: PR: CHM 2046, CHM 2046L. Experimental exercises of quantitative methods of analysis using titrimetric, gravimetric, potentiometric and photometric methods of analysis including statistical treatment of experimental data. Occasional. M&S fee: $25.00

CHM 3212L COS-CHEM 2(0,6)
Organic Laboratory Techniques II: PR: CHM 2211 and CHM 2211L. Open-end laboratory to develop synthesis techniques and structure elucidation skills. Fall. M&S fee: $45.00

CHM 3410 COS-CHEM 4(3,3)
Physical Chemistry I: PR: CHM 2046, PHY 2049, and MAC 2312. Rigorous treatment of atomic and molecular structure, thermodynamics, kinetics, and chemical bonding. Fall.

CHM 3411 COS-CHEM 3(3,0)

CHM 3411L COS-CHEM 2(0,6)
Physical Chemistry Laboratory: PR: CHM 3210 and CHM 3411L. Classical as well as modern instrumental techniques coupled with computer data processing to measure physical properties and determine atomic and molecular parameters. Spring. M&S fee: $41.00

CHM 3422 COS-CHEM 3(3,0)
Applied Physical Chemistry: PR: PHY 2049 and PHY 2049L. Fall.

CHM 4130C COS-CHEM 4(2,6)
Advanced Analytical Laboratory Technique: PR: CHM 2211, CHM 3120 (with a minimum grade of "C" or 2.0) and CHM 3411. Modern methods of analysis including electrochemistry, spectroscopy, and separation techniques. Spring. M&S fee: $25.00

CHM 4220 COS-CHEM 3(3,0)

CHM 4610 COS-CHEM 3(3,0)

CHM 4610L COS-CHEM 2(0,6)
Inorganic Chemistry Laboratory: PR: CHM 4610L. A study of physical and chemical properties and synthetic techniques in Inorganic Chemistry. Fall, Spring.

CHM 4914C COS-CHEM 1(1,1)
Undergraduate Research Methods: PR: CHM 2211 or C.I. Selection of a research project, instruction in literature searching, seminar preparation, and laboratory techniques beyond the scope of typical chemical laboratories. Fall, Spring.

CHM 4930 COS-CHEM 1(1,0)
Undergraduate Chemistry Seminar: PR: CHM 3411 and CHM 4914C. A topic of current chemical interest will be presented by students at a regularly scheduled departmental seminar. Fall, Spring.

CHM 5225 COS-CHEM 3(3,0)
Advanced Organic Chemistry: PR: CHM 2211, graduate status or senior standing, or C.I. Theoretical and physical organic concepts of organic systems from the perspective of modern structural theory, thermodynamics, and kinetics. Odd Fall.

CHM 5235 COS-CHEM 3(3,0)
Applied Molecular Spectroscopy: PR: CHM 3210 and CHM 2211, and graduate status or senior standing or C.I. Determination of chemical structure through interpretation of UV, IR, NMR and Mass Spectra. Occasional.

CHM 5305 COS-CHEM 3(3,0)
Applied Biological Chemistry: PR: CHM 2211, and graduate status or senior standing or C.I. The identification from plants, synthesis, assessment of bioactivity, and design of pharmaceuticals and agrochemicals, as well as the impact of biotechnology in the chemical industry. Occasional.

CHM 5450 COS-CHEM 3(3,0)
Polymer Chemistry: PR: CHM 2211, graduate status or senior standing or C.I. An introduction to the chemistry of synthetic polymers. Synthetic methods, polymerization mechanisms, characterization techniques, and polymer properties will be considered. Even Fall.

CHM 5451C COS-CHEM 3(1,5)
Techniques in Polymer Science: PR: CHM 2211 and CHM 3410. Graduate status or senior standing, or C.I. A laboratory and lecture course designed to introduce students to the major polymerization mechanisms along with polymer characterization and processing methods using modern instrumentation. Odd Spring. M&S fee: $45.00

CHM 5580 COS-CHEM 3(3,0)
Advanced Physical Chemistry: CR: CHM 3411 and PR: MAC 2313, and graduate status or senior standing or C.I. Selected topics of thermodynamics, kinetics, quantum mechanics, and structure. Occasional.

CHM 5715C COS-CHEM 3(2,3)
Optical Materials Processing and Characterization Techniques: PR: CHM 3411 and CHM 4610 or equivalent. Glasses, crystals and polymeric materials will be processed and characterized for their properties. Laboratory will emphasize material structure and physical property relationships. Occasional.

CHS 1440 COS-CHEM 4(3,1)
Fundamentals of Chemistry for Engineers: PR: One year of high school chemistry or CHM 1032. Basic concepts of chemistry, with emphasis on problem solving and engineering applications. Atomic and molecular structure, states of matter, stoichiometry, equilibria, electrochemistry and thermodynamics. The "NC" grading policy applies to this course. Fall, Spring.

CHS 3501 COS-CHEM 3(0,3)
Introduction to Forensic Science: PR: "C" grade or better in CHM 2046 & L, or C.I. Intended for majors and non-majors to provide an overview of the specialty areas in Criminalistics (crime lab). Spring.

CHS 3505 COS-CHEM 4(2,6)
Forensic Microscopy: PR: "C" grade or better in CHM 2046 & PHY 2049L and CHS 3501. The study of the polarized light microscope and its use in the identification and comparison of trace evidence. Fall. M&S fee: $45.00

CHS 3511C COS-CHEM 4(2,6)
Trace Evidence: PR: "C" grade or better in CHS 3505C. An advanced study of the techniques used to identify and compare trace evidence. Spring. M&S fee: $45.00

CHS 3514C COS-CHEM 3(2,3)
Bomb Scene Investigation: PR: Forensic Science major, CHS 3543 or C.I. Procedures for recognizing, collecting, preserving, and analysis of evidence from a post blast bombing crime scene. May be repeated for credit. Occasional.

CHS 3530C COS-CHEM 4(2,6)
Forensic Analysis of Controlled Substances: PR: “C” grade or better in CHM 3120, CHM 3410, CHM 2211 & L and CHS 3505C. The study of the presumptive tests, isolation, and instrumental techniques used in identification of controlled substances. Fall. M&S fee: $45.00

CHS 3533C COS-CHEM 3(2,3)
Forensic Biochemistry I: PR: "C" or better in BSC 2010C, PCB 3063 and PCB 3533 & L. Introduction to the concepts and procedures of contemporary forensic biochemistry, including the identification of body fluids and the use of genetic markers to establish identity. Fall. M&S fee: $30.00
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>CHS 3540C</td>
<td>COS-CHEM 2(1,3) Fire and Debris Analysis I: PR: CHM 3120 and C.I. A lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in fire related evidence. Occasional.</td>
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<td>CHS 3595</td>
<td>COS-CHEM 3(3,0) Forensic Science in the Courtroom: PR: CHS 3501. The special needs of the forensic scientist in preparing for and participating in courtroom proceedings. Spring.</td>
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<td>CHS 3949</td>
<td>COS-CHEM 0(0,8) Cooperative Education in Chemistry: PR: Departmental permission required before registering. Cooperative education experience in chemistry. May be repeated. Graded SU. Occasional.</td>
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<td>CHS 4200</td>
<td>COS-CHEM 3(3,0) Concepts in Industrial Chemistry: PR: CHM 3410. An introduction to industrial practices, emphasizing the application of chemical principles in the development of a commercial process or product. Occasional.</td>
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<td>CHS 4506C</td>
<td>COS-CHEM 3(2,3) Forensic Investigation Technology: PR: A grade of &quot;C&quot; or better in CHS 3511C. Modern technology applied to forensic investigation. Occasional.</td>
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<td>CHS 4532</td>
<td>COS-CHEM 3(3,0) Interpretation of DNA Evidence: PR: Grade of &quot;C&quot; or better in CHS 3530C. Concepts and principles of genetic data analysis as applied to forensics. Occasional.</td>
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<td>CHS 4537</td>
<td>COS-CHEM 2(2,0) Forensic Laboratory Quality Assurance: PR: Grade of &quot;C&quot; or better in CHS 3501, CHS 3530C, and CHS 3533C. Concepts and principles of quality assurance and quality systems management in forensic laboratories. Odd Fall.</td>
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<td>CHS 4541C</td>
<td>COS-CHEM 2(1,3) Fire and Debris Analysis II: PR: CHS 3540C or C.I. An advanced lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in real fire related evidence. Occasional.</td>
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<td>CHS 4591</td>
<td>COS-CHEM 4(0,40) Forensic Science Internship: PR: Senior standing, within 8 hrs. of completion of degree requirements, and 2.5 overall GPA. Credit for full-time work (15 weeks; 600 hours) for a professional forensic laboratory. This course may be repeated for credit. Occasional.</td>
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<td>CHS 4615</td>
<td>COS-CHEM 3(3,0) Environmental Chemistry: PR: CHM 2046, senior level in biological, molecular, chemical or engineering sciences, or C.I. Principles of environmental chemistry, survey of environmental law, remediation technologies, industrial practices and environmentally responsible chemistry. Odd Spring.</td>
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<td>CHS 5502</td>
<td>COS-CHEM 3(3,0) Principles of Forensic Science: PR: Admission to Forensic Science M.S. program or C.I. Principles of forensic science crime scene investigation, concepts in physical and biological evidence, evidence collection and transport, discrimination and individualization of evidence. Occasional.</td>
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<td>CHS 5503</td>
<td>COS-CHEM 3(3,0) Topics in Forensic Science: PR: Graduate status or C.I. Will include the history of Forensic Science and current issues such as Digital Evidence. Occasional.</td>
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<td>CHS 5518</td>
<td>COS-CHEM 3(3,0) The Forensic Collection and Examination of Digital Evidence: PR: Adv topics in Forensic Science, graduate status, or C.I. This course will cover the nature of Digital Evidence collection and examination under the constraints of Law and courtroom procedures. Occasional.</td>
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<td>CHS 5596</td>
<td>COS-CHEM 3(3,0) The Forensic Expert in the Courtroom: PR: CHS 3530C, CHS 6523, CHS 6536, or C.I. A study of the uses of technically and scientifically trained expert witnesses at trial. Spring.</td>
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<td>CIS 4361</td>
<td>ECS-CS 3(3,0) Secure Operating Systems and Administration: PR: COP 4600 or EEL 4862 or CET 4565. Understanding of secure operating systems requirements, design principles and theories, protection methods, access control, authenticating, vulnerability, analysis and case studies. Occasional.</td>
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<td>CIS 4362</td>
<td>ECS-CS 3(3,0) Network Security and Privacy: PR: CDA 4500C or equivalent, CIS 3360, CIS 3362, and COP 3530C. Fundamentals of network security protocols, secure applications, network intrusion detection, security policy, firewalls, and privacy issues. Occasional.</td>
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<td>CJ 3101</td>
<td>HPA-CJ/LS 3(3,0) The Corrections and Penology: PR: CCJ 3024 or C.I. Philosophical foundations and contemporary practices.</td>
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<td>CJ 3104</td>
<td>HPA-CJ/LS 3(3,0) Community-Based Corrections: PR: CCJ 3024 and CJ 3020 or C.I. A survey of contemporary criminal justice processes and treatment programs in the community. Occasional.</td>
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<td>CJ 4149</td>
<td>HPA-CJ/LS 3(3,0) Community Policing: PR: CCJ 3014, CJE 4014. The viability of community policing. The theoretical basis for community interventions are related to the daily operations required by community policing. Occasional.</td>
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<td>CJ 4663</td>
<td>HPA-CJ/LS 3(3,0) Crime Analysis I: PR: CJE 4654. Provides the essential data analysis skills necessary to effectively analyze crime, understand crime data structures and the problems inherent in crime data. Occasional.</td>
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CJE 5688  HPA-CJ/LS  3(3,0)  

CJ 4564  HPA-CJ/LS  3(3,0)  
Delinquency Control: PR: CJC 3024 and CJ 3510 or C.J. Examination of programs and institutions including juvenile court process, intake services, and remedial procedures and practices. Fall, Spring.

CJ 3110  HPA-CJ/LS  3(3,0)  
Criminal Law in Action: Basic concepts of criminal law: elements of major crimes, criminal responsibility, defenses, and parties to crime. Fall, Spring.

CJ 3510  HPA-CJ/LS  3(3,0)  
Prosecution and Adjudication: PR: CJC 3024 or PLA 3013 or C.J. Consideration of the structure and goals of offices and prosecution and criminal trial courts, and of the processes of charging, adjudicating, and sentencing defendants. Fall, Spring.

CJL 4100  HPA-CJ/LS  3(3,0)  
Legal Aspects of Policing: PR: CJE 4014. The legal dimensions of various police decision-making stages; including stops and frisks; arrests; searches and seizures wiretapping; and, interrogations. Occasional.

CJ 4410  HPA-CJ/LS  3(3,0)  
Legal Aspects of the Criminal Court Process: PR: CJC 3024. The legal dimensions of various criminal court decision-making stages, including bail; charging; preliminary hearing; grand jury; pretrial hearings plea hearings; trial; and, sentencing. Occasional.

CJ 4514  HPA-CJ/LS  3(3,0)  

CJT 3803  HPA-CJ/LS  3(3,0)  

CJT 3804  HPA-CJ/LS  3(3,0)  
Security Administration: Discussion of modern security administration and the security-law enforcement interface, emphasizing a systems approach and utilizing the design of a security plan for a plant. Occasional.

CJT 3819  HPA-CJ/LS  3(3,0)  

CJT 3821  HPA-CJ/LS  3(3,0)  
Practical Security Applications: An examination of basic security principles applied to practical specific security situations encountered in the Central Florida area. Occasional.

CJT 3842  HPA-CJ/LS  3(3,0)  
Special Security Problems: Review and application of basic security principles to retail security, transportation/cargo security, utility security, computer security, and other special security situations. Occasional.

CJT 4100  HPA-CJ/LS  3(3,0)  
Criminal Investigation: PR: CJE 4014. Course acquaints students with basic Procedures used in Criminal investigations, purpose of investigations, and ingredients for successful investigations. Fall, Spring.

CJT 4843  HPA-CJ/LS  3(3,0)  
Risk Management in Criminal Justice/Private Security: PR: CJT 3804. This course examines the concept of risk management in a criminal justice context. Occasional.

CLA 3850  CAH-PHIL  3(3,0)  
Classical Mythology: PR: ENC 1102 and either HUM 2210, REL 2300, WOH 2012, or LIT 2110. Myths of the Greeks & Romans studied through excerpts from ancient sources and experienced through works of art, literature, and music. Occasional.

CLA 3851  CAH-PHIL  3(3,0)  
Comparative Mythology: PR: ENC 1102 and either HUM 2210, REL 2300, WOH 2012, LIT 2110, or CLA 3850. Common themes found in the myths of various cultures; theories of their origins, meaning and value in human experience. Occasional.

CLP 3004  COS-PSYCH  3(3,0)  

CLP 3143  COS-PSYCH  3(3,0)  
Abnormal Psychology: PR: PSY 3012 and PPE 3003. Classification, causation, and treatment of deviant patterns of behavior. Fall, Spring.

CLP 3143H  COS-PSYCH  3(3,0)  

CLP 3184  COS-PSYCH  3(3,0)  
Women's Mental Health: PR: PSY 3012. Social and cultural factors of mental health issues and conditions that are unique to or primarily impact women in the U.S. today. Occasional.

CLP 3302  COS-PSYCH  3(3,0)  
Clinical Psychology: PR: PPE 3003 and CLP 3143. An overview of approaches to psychopathology, methods of clinical assessment, and various approaches to individual and group counseling. Fall, Spring.

CLP 3413  COS-PSYCH  3(3,0)  
Contemporary Behavior Therapy: PR: CLP 3143. Emphasis on the underlying principles and the specific intervention procedures which are utilized in contemporary behavior therapy, including treatment strategies for particular behavior disorders. Occasional.

CLP 3467C  COS-PSYCH  3(2,2)  
Interpersonal Effectiveness and Group Psychotherapy: PR: PSY 3012. Psychological aspects of interpersonal relationships, the rationale for group therapy, and strategies for enhancing interpersonal skills and personal growth. Occasional.

CLP 4134  COS-PSYCH  3(3,0)  

CLP 4314  COS-PSYCH  3(3,0)  
Health Psychology: PR: CLP 3143, PSB 3002, PPE 3003. Interactions between psychosocial and physical conditions, in prevention, diagnosis, intervention and health care delivery policy planning. Course will cover empirical phases for prevention, assessment and intervention approaches for these focal areas: cancer, chronic heart disease, diabetes, HIV disease, pain and stress. Occasional.

CLP 4390  COS-PSYCH  3(3,0)  
Forensic Psychology: PR: PSY 3012 and SOP 3751. Clinical practice of psychology within the legal system, including forensic evaluation of competency/insanity, treatment, and criminal profiling. Spring.

CLP 4402C  COS-PSYCH  3(2,2)  

CLP 5166  COS-PSYCH  3(3,0)  
Advanced Abnormal Psychology: PR: Graduate status or senior standing or C.J. Consideration of classification, causation, management and treatment of emotional disorders. Review of theories and research in the field. Lecture/Laboratory. Occasional.

CLP 5187  COS-PSYCH  3(3,0)  
Mental Health and Aging: PR: Graduate status or senior standing or C.J. Introduction to assessment and intervention issues, practice and research related to problems with cognitive and emotional functioning among older adults. May be repeated for credit. Occasional.

CNC 4240  COS-R/TV  3(1,2)  
Corporate/Institutional Video: PR: RTV 3200, RTV 3260C (RTV 3260C may be taken concurrently). Preparation of non-broadcast corporate/institutional video programs including planning, budgeting, production, and evaluation. Occasional.

COM 1000  COS-COMM  3(3,0)  
Communication: Basic concepts affecting human interaction through communication, theories and models of communication. Fall, Spring.

COM 2347C  COS-COMM  1(1,1)  
Sports Speaking and Interviewing: PR: SPC 1600. Practicum to prepare students to speak in public forums and to participate in interviews with the mass media. Graded S/U. Occasional.

COM 3011C  COS-COMM  3(1,2)  

COM 3013  COS-COMM  3(3,0)  
Communication and the Family: PR: SPC 1600. The ways members of a family unit interact verbally and nonverbally to influence one another. Even Fall.

COM 3110  COS-COMM  3(3,0)  
Business and Professional Communication: PR: Majors only, SPC 1600 or C.J. Theoretical and practical training in effective presentational speaking for business and professions. Fall, Spring.

COM 3110H  COS-COMM  3(3,0)  
Honors Business and Professional Communication: PR: Majors only, SPC 1600 or C.J. and consent of Honors. Theoretical and practical training in effective presentational speaking for business and professions. With Honors consent. Occasional.
COM 3120 COS-COMM 3(3,0)
Organizational Communication: PR: COM 3311. A study of communication functions and problems within the contexts of hierarchies. Fall, Spring.

COM 3311 COS-COMM 3(3,0)
Communication Research Methods: PR: STA 2014C. Research methods used in communication. Understanding and interpretation of original research emphasized. Fall, Spring.

COM 3330 COS-COMM 3(3,0)
Computer Mediated Communication: PR: CGS 1060C. Communicating through computers. The foundations and applications of online and interactive multimedia applications, including trends and limitations. Even Spring.

COM 3332 COS-COMM 3(3,0)
Communication, Technology, and Change: PR: SPC 1600. How new technologies influence (and are influenced by) communication in a variety of contexts, including organization and interpersonal settings. Spring.

COM 3406 COS-COMM 3(3,0)

COM 4014 COS-COMM 3(3,0)
Gender Issues in Communication: PR: SPC 1600 and Junior Standing. A study of how communication exchanges, both verbal and non-verbal, differ between men and women, and how these differences are manifested. Occasional.

COM 4461 COS-COMM 3(3,0)
Intercultural Communication: Study of variables affecting messages and participants in intercultural contexts. Fall, Even Spring.

COM 4462 COS-COMM 3(3,0)
Conflict Management: PR: COM 3311. The study of communication in everyday conflicts. Fall, Spring.

COP 2200 ECS-CS 3(3,0)
Computer Programming: PR: College algebra and trigonometry or equivalent. Problem definitions, algorithms, flow charts, digital computer programming using a higher level language (FORTRAN). Not open to Computer Science majors. Occasional.

COP 2500C ECS-CS 4(3,1)
Concepts in Computer Science: Fundamental concepts in program design, data structures, algorithms, analysis and a survey of topics in CS. Not open to Computer Science majors. Fall, Spring.

COP 3223 ECS-CS 3(3,0)
Introduction to Programming with C: Equivalent to EGN 3211. Programming in C including arrays, pointer manipulation and use of standard C math and IO libraries. Fall, Spring.

COP 3330 ECS-CS 3(3,0)
Object Oriented Programming: PR: COP 3223. Object oriented programming concepts (classes, objects, methods, encapsulation, inheritance, interfaces) and the expression of these concepts in the programming languages such as JAVA. Fall, Spring.

COP 3346 ECS-CS 3(3,0)

COP 3402 ECS-CS 3(3,0)
Systems Software: PR: COP 3502C. Design and development of assemblers, linkers, loaders, and compilers. Study memory hierarchy, program performance, and system level I/O. Fall, Spring.

COP 3502C ECS-CS 3(3,0)
Computer Science I: PR: COP 3223 and MAC 1105. Problem solving techniques, order analysis and notation, abstract data types, and recursion. Fall, Spring.

COP 3502H ECS-CS 3(3,0)

COP 3503C ECS-CS 4(3,1)
Computer Science II: PR: COP 3502C and COT 3100C. Algorithm design and analysis for tree, list, set, and graph data models; algorithmic strategies and applications, and algorithmic complexity analysis; sorting and searching; practical applications. Fall, Spring.

COP 3503H ECS-CS 3(3,0)
Honors Computer Science II: PR: Permission of Honors and COP 3502H. Continuation of Honors Computer Science I. Object oriented design, data structures, traversal algorithms and program correctness. Occasional.

COP 3530C ECS-CS 3(3,0)

COP 4020 ECS-CS 3(3,0)
Programming Languages I: PR: COP 3503C and COT 3960. Paradigms and fundamental concepts of programming languages are presented, including: scope, binding, abstraction, encapsulation, typing etc. Design paradigms object-oriented, functional and logic programming are presented. Fall, Spring.

COP 4020H ECS-CS 3(3,0)
Honors Programming Languages I: PR: Consent of Honors and COP 3503C. Deeper understanding of the paradigms and fundamental concepts of programming languages and languages, such as scope, binding, abstraction, encapsulation, typing, etc. Object-oriented, functional and logic programming paradigms will be introduced through programming languages. With Honors consent. Occasional.

COP 4331C ECS-CS 4(3,1)
Processes for Object-Oriented Software Development: PR: COT 3960 (Foundation Exam) and COP 3503C. Concepts, principles, processes and methods for developing large software systems featuring a team project in discrete-event simulation using object-oriented design in UML and implementation in C++. Occasional.

COP 4516C ECS-CS 3(1,3)
Problem Solving Techniques and Team Dynamics: PR: COP 3503C. Design and implement solutions to problems requiring the applications of the different algorithms. Team project format. Even Spring.

COP 4520 ECS-CS 3(3,0)
Concepts of Parallel and Distributed Processing: PR: COP 3402 and COP 3503C and COT 3960. Parallel and distributed paradigms, architectures and algorithms, and the analytical tools, environments and languages needed to support these paradigms. Occasional.

COP 4521 ECS-CS 3(3,0)

COP 4600 ECS-CS 3(3,0)
Operating Systems: PR: COP 3402 and COP 3503C and COP 3400. The goal of the course is to teach the function and organization of operating systems, process management, virtual memory, I/O management, and file management. Fall, Spring.

COP 4600H ECS-CS 3(3,0)
Honors Operating Systems: PR: Permission of Honors and COP 3402 and COP 3503C. Same as COP 4600 with Honors level content. Occasional.

COP 4610L ECS-CS 3(0,3)
Operating Systems Laboratory: PR: COP 3503C. CR: EEL 4862. Exercises in the configuration, development, management and analysis of operating systems; OS Kernel support for semaphores and multi-tasking; security in a distributed heterogeneous environment. Fall, Spring.

COP 4710 ECS-CS 3(3,0)
Database Systems: PR: COP 3503C. Storage and access to structures, database models and languages, related database design, and implementation techniques for database management systems. Fall, Spring.

COP 4910 ECS-CS 3(3,0)
Frontiers in Information Technology: PR: COP 4610L, CFT 4741L. Research into leading edge information technologies that have a high likelihood of affecting the work place in the two to five year time frame. Fall, Spring.

COP 5021 ECS-CS 3(3,0)

COP 5537 ECS-CS 3(3,0)
Network Optimization: Recent advances in the theory and computational techniques for optimal design and analysis of large networks for computers, communications, transportations and other applications. Fall.

COP 5611 ECS-CS 3(3,0)

COP 5711 ECS-CS 3(3,0)
Parallel and Distributed Database Systems: PR: COP 4710. Storage manager, implementation techniques for parallel DBMSs, distributed DBMS architectures, distributed database design, query processing, multidatabase systems. Occasional.

COT 3100C ECS-CS 3(3,1)
COT 3100H  ECS-CS  3(3,0)

COT 3960  ECS-CS  0(1,0)

COT 4110  ECS-CS  3(3,0)

COT 4210  ECS-CS  3(3,0)

COT 4500  ECS-CS  3(3,0)

COT 4810  ECS-CS  3(3,0)
Topics in Computer Science: PR: COP 3402 and COP 3530C and COT 3960. A range of topics from the field of Computer science; application of oral and written communication skills; social, ethical and moral issues of computing. Fall, Spring.

COT 5310  ECS-CS  3(3,0)
Formal Languages and Automata Theory: PR: COP 4020 and COP 4210. Classes of formal grammars and their relation to automata, normal forms, closure properties, decision problems. LR(K) grammars. Fall, Spring.

COT 5405  ECS-CS  3(3,0)

COT 5507  ECS-CS  3(3,0)
Computational Methods/Applications: PR: COP 4500. Computational solution techniques for algebraic equations, ODE and PDE Models of applications selected from science, engineering, applied mathematics, and computer science. Occasional.

COT 5510  ECS-CS  3(3,0)
Computational Methods/Linear Systems: PR: COP 4500 and MAS 3106. Mathematical models for linear systems, linear programming, the simplex method, integer and mixed-integer programming, introduction to nonlinear optimization and linearization. Occasional.

COT 5520  ECS-CS  3(3,0)

CPO 3034  COS-POLS  3(3,0)
Politics of Developing Areas: Comparative analysis of theories, problems and politics of development in Third World nations. Even Fall.
CRW 3120  CAH-ENG  3(3,0)
Fiction Writing Workshop: PR: Junior standing, and C (2.0). Foundation workshop for English majors; group analysis and criticism; creative writing of contemporary fiction and fiction theory. Fall, Spring.

CRW 3211  CAH-ENG  3(3,0)
Creative Nonfiction Writing: PR: English or English Ed major or C.I. and C (2.0). An intermediate level creative nonfiction writing workshop for English majors. Group analysis and criticism; creative writing of original manuscripts. Fall, Spring.

CRW 3310  CAH-ENG  3(3,0)
Poe Writing Workshop: PR: Grade of C (2.0) or better required in ENC 1102 and CRW 2300 or CRW 3013. An intermediate level poetry workshop for English majors. Group analysis and criticism: close reading of contemporary poetry and poetic theory. Fall, Spring.

CRW 3311  CAH-ENG  3(3,0)
Structure of Verse: PR: Grade of C (2.0) or better required in ENC 1102. Intensive study of the structural characteristics of English, poetry, metrical systems, rhyme, assonance, and poetic rhetorical devices. Occasional.

CRW 3540  CAH-ENG  3(3,0)
Literary Magazines: PR: Grade of C (2.0) or better required in ENC 1102. Examination of fiction and poetry trends in current literary magazines, identifying editorial policies in publication of contemporary literature. Occasional.

CRW 3610  CAH-ENG  3(3,0)
Writing Scripts: PR: Grade of C (2.0) or better required in CRW 3013 or C.I. Theory and practice of writing scripts for film and TV. Fall, Spring.

CRW 4014  CAH-ENG  3(3,0)

CRW 4114  CAH-ENG  3(3,0)
History of Prose Style: PR: Grade of C (2.0) or better required in ENC 1102. A review of English prose style from 1611 to 1960. Occasional.

CRW 4222  CAH-ENG  3(3,0)
Advanced Fiction Writing Workshop: PR: Grade of C (2.0) or better required in CRW 3120. Intensive written practice in fiction. Peer critique and group discussion of original manuscripts. May be repeated once for credit. Fall, Spring.

CRW 4223  CAH-ENG  3(3,0)

CRW 4224  CAH-ENG  3(3,0)
Advanced Nonfiction Workshop: PR: Grade of C (2.0) or better required in CRW 3013 and CRW 3211 (or equivalent and permission based on submission of manuscript). Advanced creative nonfiction, through intensive reading, writing, and workshop. The genre draws upon memory, observation, and techniques of fiction, poetry, and journalism. May be repeated for credit. Fall, Spring.

CRW 4320  CAH-ENG  3(3,0)
Advanced Poetry Writing Workshop: PR: Grade of C (2.0) or better required in CRW 3013 and CRW 3310, or CRW 2300. Intensive writing practice in poetry. Peer critique and group discussion of original manuscripts. May be repeated once for credit. Fall, Spring.

CRW 4616  CAH-ENG  3(3,0)

CRW 4804  CAH-ENG  3(3,0)
Creative Writing in the Community: PR: Junior standing and CRW 3100 or CRW 3210 or CRW 3211. Teaching creative writing to community groups through service-learning. Occasional.

CRW 5020  CAH-ENG  3(3,0)
Graduate Writing Workshop: PR: Graduate status or seniors standing or C.I. Creative writing practicum. May be repeated once for credit. Fall.

CRW 5130  CAH-ENG  3(3,0)
Form and Theory in Creative Writing: PR: Graduate standing and instructor consent. Formal and theoretical study of creative writing of given genre (poetry, short fiction, etc.). May be repeated when genre differs. Occasional.

CRW 5932  CAH-ENG  3(2,1)
Teaching Creative Writing: PR: Graduate status or senior standing or C.I. Creative writing practicum. May be repeated for credit. Fall.

CRW 5948C  CAH-ENG  3(2,1)
Creative Writing Service Learning: PR: Graduate standing or C.I. On-site experience leading and sharing creative writing in community settings. May be repeated for credit 2 times. Occasional.

CWR 3201  ECS-CEE  3(3,0)

CWR 4101C  ECS-CEE  3(2,2)
Hydrology: PR: STA 3032; CWR 3201. Hydrological cycle, probabilistic forecasting, rainfall excess meteorology, groundwater, storm-water runoff, flood routing and design applications. Fall, Spring. M&S fee: $15.00

CWR 4203C  ECS-CEE  3(2,2)
Hydraulics: PR: CWR 3201 continuation of CWR 3201 with emphasis on piping networks, pumps, and hydraulic systems. Laboratory with civil and environmental engineering applications. Fall, Spring. M&S fee: $20.00

CWR 4812C  ECS-CEE  3(2,2)
Water Resources Design: PR: CWR 4101C, CWR 4202C. Project course for the design of storm water and sewer transmission systems using local and state regulations. Fall, Spring. M&S fee: $15.00

CWR 5205  ECS-CEE  3(3,0)

CWR 5515  ECS-CEE  3(3,0)
Numerical Methods in Civil & Environmental Engineering: PR: CWR 4101C, CWR 4203C. This course will present intermediate to advanced numerical methods theory and include code development and error assessment, while targeting civil and environmental engineering applications. Occasional.

CWR 5545  ECS-CEE  3(3,0)

DAA 2100C  CAH-THEA  2(2,1)
Modern Dance I: PR: Theatre major, Dance minor, or department consent. Exploration of form, style, and technique in creative movement. Includes practical class work and history lectures. Fall.

DAA 2200C  CAH-THEA  2(2,1)
Ballet I: PR: Theatre major, Dance minor, or department consent. Fundamentals of classical ballet; includes practical dance work as well as dance history lectures. Fall.

DAA 2201C  CAH-THEA  2(2,1)
Ballet II: PR: Theatre major, Dance minor, or department consent. Fundamentals of classical ballet, includes practical dance work as well as dance history lectures. Fall.

DAA 2393C  CAH-THEA  2(2,1)
World Dance: PR: Theatre major, Dance minor, or department consent. Theory and applied technique of world dance. Semester focus will be devoted to one form, such as African dance, Flamenco, Irish dance, Indian dance, or other. May be repeated for credit. Occasional.

DAA 2520C  CAH-THEA  2(2,1)
Tap Dance I: PR: Theatre major, Dance minor, or department consent. Form, style, and technique in the basic fundamental movements of tap dance. Fall.

DAA 2521C  CAH-THEA  2(2,1)
Tap Dance II: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2520C. Intermediate exploration of form, style, and technique in creative movement, including practical class work and history lectures. Fall.

DAA 2540  CAH-THEA  3(2,2)
Jazz Dance: PR: CR: THEA 2020 or THEA 2020. The study and application of fundamental dance techniques as they relate to musical theatre dance styles. Occasional.

DAA 2570C  CAH-THEA  2(2,1)
Jazz Dance I: PR: DAA 2200C, and Theatre major, or Dance minor, or department consent. Basic movements of American Jazz dance, including practical class work and Jazz dance history. Fall, Spring.
DAA 2571C CAH-THEA 2(2,1)
Jazz Dance II: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2570C. Intermediate Jazz dance using theory and practice in jazz technique. Spring.

DAA 2610 CAH-THEA 3(3,0)
Dance Improvisation/Composition I: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2100C. Fundamental study and exploration of dance composition. Spring.

DAA 2640 CAH-THEA 3(2,2)
Theatre Dance Choreography and Performance: PR: By audition. Students will create and present a piece choreographed and performed by other dancers in concert. May be repeated for credit. Occasional.

DAA 3102C CAH-THEA 2(2,1)
Modern Dance III: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2571C. Advanced exploration of form, style, and technique in creative movement. May be repeated for credit. Spring.

DAA 3202C CAH-THEA 2(2,1)
Ballet III: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2100C. Advanced classical ballet technique, including principles, theory, and practice technique. May be repeated for credit. Fall.

DAA 3502C CAH-THEA 2(2,1)
Jazz Dance III: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2571C. Advanced study of jazz dance, using theory and practice of jazz technique. May be repeated for credit. Fall.

DAA 3524C CAH-THEA 2(2,1)
Tap Dance III: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2521C. Advanced exploration of form, style, and technique of tap dance. May be repeated for credit. Fall.

DAA 3645 CAH-THEA 2(0,VAR)
Choreography Practicum: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2200C. Student practice in choreographing a concert dance work for public performance. May be repeated for credit 4 times. Spring.

DAA 3680 CAH-THEA 1(0,10)
Dance Performance: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2200C. Student performance in a concert dance work. Students must be registered in a dance technique class. May be repeated for credit. Spring.

DAE 3370 ED-TLP 3(1,2)

DAN 3134 CAH-THEA 3(3,0)
Dance History I: PR: DAA 2200C or DAA 2520C or DAA 2507C or DAA 2393C, and Theatre major, Dance major, or department consent. The roots, trends, and styles of dance from prehistory through the twentieth century. Fall.

DEP 2004 COS-PSYCH 3(3,0)

DEP 2004H COS-PSYCH 3(3,0)
Honors Developmental Psychology: PR: PSY 2012 and consent of Honors. Genetic, psychological, maturational, and social factors on behavior throughout the life cycle. With Honors consent. Fall.

DEP 3202 COS-PSYCH 3(3,0)

DEP 3464 COS-PSYCH 3(3,0)
Psychology of Aging: PR: PSY 2012. An examination of basic psychological processes related to the aging process, with emphasis on the applied implications of changes in perceptual-motor, social emotional and cognitive-intellectual functioning. Occasional.

DEP 5057 COS-PSYCH 3(3,0)
Developmental Psychology: PR: Graduate status or senior standing or C.I. Psychological aspects of development including intellectual, social, and personality factors. Spring.

DIG 2000 CAH-DIG 3(3,0)
Introduction to Digital Media: CR: ENC 1101. The principles, development and prospects for Digital Media, with a focus on the internet. Students learn to build Web pages as their principal expressive medium in the course. Extensive reading, Internet and library research, several short papers and a team project are required. This course serves as the gateway for the Digital Media program. Occasional.

DIG 3001 CAH-DIG 3(3,0)

DIG 3035L CAH-DIG 1(0,3)
Digital Media Service I: PR: DDA 325 and a minimum grade of "B" (3.0) or better in DIG 3001. Participation in a consulting service for selected clients both within and external to the university, where students design Web pages, provide tutorial, installation, and maintenance assistance with software tools. Graded S/U. Fall, Spring.

DIG 3135C CAH-DIG 3(2,1)
Digital Imagemy: PR: DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001. Technical principles of digital photography and scanned image capture for use in video games, internet and interactive software. Project oriented. Even Fall, Odd Spring.

DIG 3153 CAH-DIG 3(3,0)

DIG 3253 CAH-DIG 3(3,0)
Digital Media Audio: PR: DIG 3001. Methodology and implementation of sound for multimedia systems, including audio recording and MIDI Composition techniques. Fall, Spring.

DIG 3286C CAH-DIG 3(3,0)
Assembling Digital Media: PR: DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001. Assembly and editing of images and sounds for use in interactive media. Project oriented. Fall, Spring.

DIG 3355 CAH-DIG 3(3,0)
Artificial Environments and Effects: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Design, manipulation to convey a story, thought, and concept in visual medium. New imagery in motion such as non-character entities, music videos, and scientific visualization. Odd Fall.

DIG 3362 CAH-DIG 3(3,0)
Artificial Characters: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Processes, techniques for design and manipulation of artificial characters to convey story, thought, or concept in a visual medium. Odd Fall.

DIG 3430 CAH-DIG 3(3,0)
Visual Storytelling and Visual Development: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Processes and techniques to transform story concepts into a producible visual experience. Odd Fall.

DIG 3450C CAH-DIG 3(3,0)
Interactive Performance I: PR: Admission by audition only. Digital Media, Theatre majors, or C.I. Techniques of interactive acting, with emphasis on interpersonal awareness and audience facilitation. Fall, Spring.

DIG 3480C CAH-DIG 4(2,2)
Computer as a Medium: PR: DIG 2000. Not for credit for those who have had ART 2300C. Drawing of objects using the computer. Students will use a stylus with Painter, Photoshop and Illustrator software to draw from still life arrangements. Occasional.

DIG 3485 CAH-DIG 3(3,0)
Visual Language of the Moving Image: PR: DIG 3001 or FL 1007, and a minimum grade of "B" (3.0) or better in DIG 3001 and C.I. Digital Media, Film or Animation major. Conceptual structure and design of visual storytelling. Principles, mechanics, character development, personality of place, exaggeration and effects. Fall, Spring.

DIG 3524 CAH-DIG 3(3,0)
The Production Process: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Production in a visual medium from narrative idea to finished artifact. Odd Fall.

DIG 3525 CAH-DIG 3(3,0)
Digital Media Production I: PR: DIG 2000, GRA 2101C and a minimum grade of "B" (3.0) or better in DIG 3001. Media project planning, organization and execution; group dynamics. Software tools for project planning, scheduling and management. Fall, Spring.

DIG 3563 CAH-DIG 3(3,0)
Information Management and Authorship: PR: DIG 3001. Information management relating to creation, storage, retrieval of assets and authoring of databases and file types. Fall, Spring.

DIG 3611 CAH-DIG 3(3,0)
User-Centered Design: PR: B or better in DIG 3001. The creation of media software and other human-system products by applying knowledge about cognition and behavior. Fall, Spring.

DIG 3821 CAH-DIG 3(3,0)
Creative Digital Problem Solving: PR: Minimum grade of "B" (3.0) or better in DIG 3001. Techniques for brainstorming to identify key problems and to discover creative solutions in the design of digital media and systems. Problem-based description techniques. Fall, Spring.
DIG 3855  CAH-DIG  3(3,0)
Converging Media:  PR:  FIL 3625; Film or Digital Media major, and a minimum grade of "B" (3.0) or better in DIG 3001. Various technologies and strategies for creative storytelling on the Internet. Even Spring.

DIG 4204  CAH-DIG  3(3,0)
Generating and Manipulating Digital Imagery:  PR:  Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Core techniques for creating and manipulating second and third digital representations. Fall.

DIG 4206C  CAH-DIG  4(3,3)
New Imagery in Motion Workshop:  PR:  DIG 3355 and successful portfolio review, or C.I. Techniques and mechanics of new approaches to visual communication, new narrative structures, new and emerging media. Even Fall, Odd Spring.

DIG 4323  CAH-DIG  3(3,0)
Modeling for Visual Language:  PR:  DIG 4780 and a minimum grade of "B" (3.0) or better in DIG 3001. Constructing organic 3D models for non-realtime applications, operating high performance CAD systems, and using higher-order modeling techniques. Introduction to rigging and animation controls, materials, lighting and rendering. Even Fall, Odd Spring.

DIG 4324  CAH-DIG  3(3,0)
Modeling for Realtime Systems II:  PR:  DIG 4780 and a minimum grade of "B" (3.0) or better in DIG 3001. Advanced techniques for character animation, texture, lighting, rendering. Project oriented. Fall, Even Spring.

DIG 4325C  CAH-DIG  4(3,3)
Look Modeling Workshop:  PR:  COIT 3960 and (DIG 3352 or DIG 3355) and successful portfolio review, or C.I. Techniques, mechanics of designing, developing finished look emphasis on rendering, shading, texturing, and lighting. Even Fall, Odd Spring.

DIG 4326C  CAH-DIG  4(3,3)
Geometrical Modeling Workshop:  PR:  COIT 3960 and (DIG 3362 or DIG 3355) and successful portfolio review, or C.I. Techniques and mechanics of designing and manipulating geometrical representations artificial characters and their environments, introduction to procedural models. Odd Spring.

DIG 4359C  CAH-DIG  4(3,3)
Artificial Environments and Effects Workshop:  PR:  DIG 3355 and successful portfolio review, or C.I. Techniques and mechanics of artificial environments, with emphasis on composition, image processing, visual style, visual continuity. Odd Spring.

DIG 4369C  CAH-DIG  4(3,3)
Artificial Characters Workshop:  PR:  DIG 3362 and successful portfolio review, or C.I. Techniques and mechanics of artificial characters, with emphasis on attitude in action, personality of character expressions, and bringing characters to life. Odd Spring.

DIG 4451C  CAH-DIG  4(3,3)
Visual Storytelling and Visual Development Workshop:  PR:  DIG 3430 and successful portfolio review, or C.I. Techniques, mechanics of visual development with emphasis on strong visual designs which communicate effectively. Odd Spring.

DIG 4455C  CAH-DIG  3(3,0)
Interactive Performance II:  PR:  DIG 3455C or C.I. Continuation of Interactive Performance I, with focus on the integration of actors, audience participation, technology, and story structure. Even Fall, Spring.

DIG 4486  CAH-DIG  3(3,0)

DIG 4522L  CAH-DIG  1(0,3)
Digital Media Service II:  PR:  DIG 3035L and a minimum grade of "B" (3.0) or better in DIG 3001. Continued participation in a consulting service for selected clients both within and external to the university, where students design Web pages, and provide tutorial, installation, and maintenance assistance with software tools. Graded S/U. Fall, Spring.

DIG 4523L  CAH-DIG  1(0,3)
Digital Media Service III:  PR:  DIG 4522L and a minimum grade of "B" (3.0) or better in DIG 3001. Participation as a leader in a consulting service for selected clients both within and external to the university, where students design Web pages, and provide tutorial, installation, and maintenance assistance with software tools. Graded S/U. Even Fall, Spring.

DIG 4524L  CAH-DIG  3(0,3)
Digital Media Project II:  PR:  DIG 3525 and a minimum grade of "B" (3.0) or better in DIG 3001. Multidisciplinary students work with faculty and industry mentors to design and implement a project involving virtual reality, video game production, computer animation, or interaction with the theme park industry. Odd Fall, Even Spring.

DIG 4526C  CAH-DIG  3(2,2)
Digital Media Production II:  PR:  DIG 3525 and a minimum grade of "B" (3.0) or better in DIG 3001. Management and execution of large media projects, using structured methods and tools learned in Digital Media Production I. Fall, Even Spring.

DIG 4640  CAH-DIG  3(0,3)
Autonomous Media:  PR:  IDS 3701C and a minimum grade of "B" (3.0) or better in DIG 3001. Applications of concepts derived from research on artificial intelligence, media and the Internet. Project-based. Occasional.

DIG 4641  CAH-DIG  3(3,0)
Creative Digital Devices:  PR:  IDS 3701C and ART 2201C and a minimum grade of "B" (3.0) or better in DIG 3001. The physical construction and computer control of electro-mechanical devices, and the use of software libraries for controlling tested hardware, for entertainment and creative applications. Occasional.

DIG 4645  ECS-CS  3(3,0)
Digital Media:  PR:  COP 3530C or C.I. Information structures, algorithms and interactive tools for creation, compression, storage, indexing and transmission of multimedia (visual images, sound, tactile displays, etc.) Project-oriented. Odd Fall.

DIG 4713C  CAH-DIG  3(2,2)
Game Design:  PR:  DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001 and C.I. Principles of design for interactive games and learning experiences. Psychology of play, storytelling, and character development. Project-oriented. Odd Fall.

DIG 4715C  CAH-DIG  3(2,2)
Game Engines:  PR:  DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001. Principles of 3D interactive graphics and simulation as used in "game engines". Software systems for building Internet or PC-based shared virtual worlds. Project oriented. Fall, Spring.

DIG 4716L  CAH-DIG  3(0,3)
Internet Interaction:  PR:  DIG 2000 or CGS 3175 and a minimum grade of "B" (3.0) or better in DIG 3001 or C.I. Interdisciplinary approach to design and construction of advanced interactive web sites, applying esthetic and scientific principles of user interface design. Project-oriented. Fall, Spring.

DIG 4770  ECS-CS  3(3,0)
Building Virtual Worlds:  PR:  COP 3530C or C.I. Design and construction of software for networked interactive learning environments, entertainment and communication systems. Tools for enabling dramatic, artistic and technical creativity. Project-oriented. Odd Fall.

DIG 4780  CAH-DIG  3(3,0)
Modeling for Realtime Graphics:  PR:  DIG 4770, GRA 2101C or other computer graphics experience and a minimum grade of "B" (3.0) or better in DIG 3001 and C.I. Principles of construction of 3D models for realtime applications; use of high performance CAD systems; level of detail management, efficiency vs. visual quality for video games and realtime simulation. Odd Fall, Even Spring.

DIG 4921C  CAH-DIG  3(2,2)
Media for e-Commerce I:  PR:  DIG 2000 and (COP 2500C or COP 3502C) and a minimum grade of "B" (3.0) or better in DIG 3001. Media in support of electronic commerce on the Internet. Emphasis on the artistic and creative components supporting the business aspects of electronic commerce. Project oriented. Odd Fall, Even Spring.

DIG 4922  CAH-DIG  3(3,0)
Media for e-Commerce II:  PR:  IDS 4688C and COP 3330 and a minimum grade of "B" (3.0) or better in DIG 3001. Server-side programming in Java to support media-rich E-Commerce applications. Project oriented. Even Spring.

DIG 4931  CAH-DIG  3(3,0)

DIG 5136C  CAH-DIG  3(1,3)
Design for Media:  PR:  Graduate standing and C.I. Theories and practices of interactive design for digital media content. Fall.

DIG 5366  CAH-DIG  3(3,0)
Creating Interactive Characters:  PR: Admission to Digital Media M.S. or C.I. Survey of issues related to creating interactive characters. Topics will range from modeling humans to reviewing realistic human capabilities. Graded S/U. Fall, Spring.

DIG 5550C  CAH-DIG  3(1,3)
Digital Media Development:  PR:  DIG 5136C or C.I. Students will begin developing projects specified by design documents from Design for Media course. Odd Fall.

DIG 5551C  CAH-DIG  3(1,3)
Interactive Media Design:  PR:  DIG 4716L and DIG 5286C or equivalent, or C.I. Interdisciplinary approach to design and construction of advanced interactive media, applying theory, aesthetic, and scientific principles of user interaction. Project and theory-based. Even Spring.

DIG 5565C  CAH-DIG  3(1,3)
DIG 5627 CAH-DIG 3(3,0) Autonomous Characters: PR: Graduate status or senior standing or C.I. Interdisciplinary study of autonomous character—computer programs that mimic human behavior in games, simulations and interactive literature. Formal models of strategy, tactics and actions. Occasional.

DIG 5647 CAH-DIG 3(3,0) Science & Technology of Dynamic Media: PR: Graduate status or senior standing or C.I. Key scientific, technical issues in interactive media. Information algorithms, objects, models. Theories of computer graphics, sound, modeling, simulation, interfaces, artificial intelligence. Occasional.

DIG 5810 CAH-DIG 3(3,0) Ways of Seeing: Cultural and Technological Perspectives: PR: Admission to Film and Digital Media masters program or C.I. Cultural and technological perspectives formed by the intersection of media and cultural studies, art history and criticism, and cinema studies. Fall.

DIG 5835 CAH-DIG 3(3,0) Digital Forensics: PR: CGS 5313 (Computer Forensics I) or C.I. Application of digital scientific techniques to solve information assurance, forensic and legal problems. Occasional.

DIG 5950 CAH-DIG 3(3,0) Interactive Entertainment Capstone: PR: Admission to Digital Media M.S. Prepare a product design document and technical design document for a production project. Graded SU. Fall, Spring.


EAB 3703 COS-PSYCH 4(3,2) Principles of Behavior Modification: PR: EXP 3404. An examination of the control of behavior through applications of principles and theories of learning. Examples are drawn from clinical and social psychology and from child rearing. Lecture/Practicum. Fall.

EAB 3705C COS-PSYCH 4(3,2) Behavior Modification - Part II: PR: EAB 3703, EXP 3404. Continued examination of the principles of behavior analysis and their application, as well as ethical issues related to the delivery of behavior analysis programs. Occasional.

EAB 5765 COS-PSYCH 3(3,0) Applied Behavior Analysis with Children and Youth: PR: DEP 5557 and EXP 5445, and graduate status or senior standing or C.I. Advanced survey of principles, procedures, and techniques of applied behavior analysis, with special attention to applications with children and youth. Occasional.

EAS 3010 ECS-MMAE 3(3,0) Fundamentals of Aerospace Flight: PR: Sophomore standing. Fundamental theories of inviscid, incompressible aerodynamics and flight mechanics; airfoil theory; external and internal flows; airplane performance. Fall.

EAS 3101 ECS-MMAE 3(3,0) Fundamentals of Aerodynamics: PR: EAS 3010. Viscous, incompressible fluid flow; flow over finite wings; aerodynamic design; introduction to computational fluid dynamics. Spring.


EAS 3810C ECS-MMAE 2(1,3) Design of Aerospace Experiments: PR: EAS 3600C and EAS 3101. Extension of EAS 3800C. Design of experiments in aeronautics/aerospace systems with emphasis on project team activity. Spring.

EAS 4105 ECS-MMAE 3(3,0) Flight Mechanics: PR: EAS 3101 and EML 4512C. Analysis and design of aircraft performance, static and dynamic stability and automatic control systems. Fall.

EAS 4134 ECS-MMAE 3(3,0) High-Speed Aerodynamics: PR: EGN 3434, EML 3701, EAS 3800C. Continuation of EAS 3101. Normal and oblique shock waves, nozzles and wind tunnels, methods of analyzing compressible flow about airfoils, wings, and bodies. Viscous boundary layers and applications to the design process. Fall.


EAS 4300 ECS-MMAE 3(3,0) Aerothermodynamics of Propulsion Systems: PR: EAS 4134 or EML 4703. Fundamental analysis and design considerations of propulsion systems. Turbojets, ramjets and rockets. Spring.

EAS 4400 ECS-MMAE 3(3,0) Spacecraft Attitude Dynamics: PR: EML 4312C. Kinematics and dynamics of rigid and multibody spacecraft rotational motion. Attitude control with momentum exchange actuators and thrusters. Occasional.


EAS 4700C ECS-MMAE 3(1,6) Aerospace Design I: PR: EAS 3610C, CR: EML 4512C. 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. Fall, Spring.

EAS 4710C ECS-MMAE 3(1,6) Aerospace Design II: PR: EAS 4700C. Continuation of the design process in the team building and testing of a prototype/model of an airplane, spacecraft, system or device. Fall, Spring. M&S fee: $45.00


EAS 5302 ECS-MMAE 3(3,0) Direct Energy Conversion: PR: EML 3101 and EML 4142. Direct methods of energy conversion; particular emphasis on fuel cells, thermoelectrics, thermionics, solar energy, photovoltaics and magnetohydrodynamics. Analysis and systems design. Occasional.


EAS 5407 ECS-MMAE 3(3,0) Mechatronic Systems: PR: EML 3804C or EAS 3404C. Discrete control techniques for aerospace mechatronic systems. Controller design, test and evaluation applications. Odd Spring.

EAS 5535 ECS-MMAE 3(3,0) Engineering Design for Aerospace Vehicles: PR: EAS 4700C; EAS 4710C. EML 4520C; EML 4520C; or equivalent. Applications of the design process to aerospace vehicles. A systems approach will be emphasized. Techniques for optimizing interface requirements will be covered. Occasional.


ECM 5135 ECS-ECE 3(3,0) Engineering Math Analysis I: PR: MAP 2302. Topics in advanced engineering mathematics, including systems of differential equations, phase plane, linear algebra, and vector differential calculus. Fall.

ECM 5741C ECS-ECE 3(2,3) Microcomputer-based Monitoring and Control Systems: PR: EEL 3342C, EEL 4767C or C.I. Machine language programming; software development aids; systems design; interfacing considerations. Occasional.

ECO 2013 BA-ECON 3(3,0) Principles of Macroeconomics: An introduction to macroeconomics, including an overview of the market economy; national income, employment, and price level determination, stabilization policies, and international economics. Fall, Spring.

ECO 2013H BA-ECON 3(3,0) Honors Principles of Economics I: PR: Permission of Honors. Same as ECO 2013 with honors-level content. Fall, Spring.

ECO 2023 BA-ECON 3(3,0) Principles of Microeconomics: The determination of prices in a market economy; their role in allocating consumer and producer goods and in distributing incomes, including attempts to improve market efficiency through public policy. Fall, Spring.
UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 2023H</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>Honors Principles of Microeconomics: PR: Permission of Honors. The determination of prices in a market economy; their role in allocating consumer and producer goods and in distributing incomes, including attempts to improve market efficiency through public policy. Honors content. Occasional.</td>
</tr>
<tr>
<td>ECO 3070</td>
<td>BA-ECON</td>
<td>1(1,0)</td>
<td>Tutoring/Teaching Techniques for Undergraduate Economics: PR: Satisfactory completion of same course the student is tutoring. Prepare undergraduate students to more effectively learn economics concepts through tutoring/teaching. May be repeated for credit up to 3 times. Graded S/U. Fall, Spring.</td>
</tr>
<tr>
<td>ECO 3101</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>Intermediate Microeconomics: 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. Fall, Spring.</td>
</tr>
<tr>
<td>ECO 3401H</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>Honors: Quantitative Business Tools I: PR: Economics major or minor, ECO 2023, MAC 1105, permission of honors. Same as ECO 3401 with Honors level content. Occasional.</td>
</tr>
<tr>
<td>ECO 3410</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>Mathematical Economics: PR: ECO 3401 or MAC 2233. Mathematical methods with particular focus on microeconomic foundations of individual decision-making. Even Spring.</td>
</tr>
<tr>
<td>ECO 3411</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>Quantitative Business Tools II: PR: Junior standing and business major or minor, ECO 2013, ECO 2023, and ECO 3401. The use of statistical methods as scientific tools in the analysis of economics and business problems. Fall, Spring.</td>
</tr>
<tr>
<td>ECO 3411H</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>Honors: Quantitative Business Tools II: PR: ECO 3401, permission of honors. Same as ECO 3411 with Honors level content. Occasional.</td>
</tr>
<tr>
<td>ECO 3703</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>International Trade: PR: ECO 2013 and ECO 2023. Fundamental principles of international trade and foreign exchange, including the balance of payments and problems of foreign economic policy. Fall.</td>
</tr>
<tr>
<td>ECO 3723</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>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 WWII. Spring.</td>
</tr>
<tr>
<td>ECO 4412</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>Econometrics: PR: ECO 2013, ECO 2023 and ECO 3411. Concepts and methods of developing, analyzing, and interpreting measures of economic activity, and business and economic change. Even Fall.</td>
</tr>
<tr>
<td>ECO 4451</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>Research Methods in Economics: PR: ECO 3010, ECO 3203 and ECO 3411. Skills in data collection and creation, data analysis, and research presentation. Fall, Spring.</td>
</tr>
<tr>
<td>ECO 4941</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>Economics Internship: PR: Consent of department chair. Supervised economics-related work experience in a pre-approved sponsoring organization. See department for information/registration. Graded S/U. Occasional.</td>
</tr>
<tr>
<td>ECO 5005</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>Economic Concepts: PR: Acceptance into the graduate program. Introduction to micro and macro economic analysis. Occasional.</td>
</tr>
<tr>
<td>ECO 5414</td>
<td>BA-ECON</td>
<td>1.5(1,5)</td>
<td>Statistical Foundations: PR: Acceptance to Graduate Study. Statistical theory and problems relating to business and economics, including time series and correlation theory, index number theory and statistical inference. Fall, Spring.</td>
</tr>
<tr>
<td>ECP 3203</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>Labor Economics: PR: ECO 2013 and ECO 2023. The analysis of labor problems and issues in a dynamic contemporary economy through the interaction of the four major institutions: households, firms, government, and unions. Occasional.</td>
</tr>
<tr>
<td>ECP 3303</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>Economics and the Environment: PR: Sophomore standing, and ECO 2013 or ECO 2023. Analysis of environmental problems from an economic perspective, its relationship to other disciplines, and the the international dimension of environmental policy. Even Fall.</td>
</tr>
<tr>
<td>ECP 4302</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>Environmental and Natural Resource Economics: PR: ECO 2013 and ECO 2023 or C.I. Provide fundamental insights into the interdependence between energy use, environmental quality, and the economy at both the microeconomic and macroeconomic level. Odd Fall.</td>
</tr>
<tr>
<td>ECP 4403</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>Industrial Organization and Game Theory: PR: ECO 2013 and ECO 2023. A study of the performance of industries representative of various types of market structure and practices, as well as the public policies affecting these industries. Even Spring.</td>
</tr>
<tr>
<td>ECP 4703</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>Managerial Economics: PR: Junior standing, ACN 2071, ECO 2013, ECO 2023 and ECO 3411. The uses of economic analysis in economic decision-making and business policy formulation. Open for non-majors ONLY. Spring.</td>
</tr>
<tr>
<td>ECS 4303</td>
<td>BA-ECON</td>
<td>3(3,0)</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). Occasional.</td>
</tr>
<tr>
<td>ECS 4442H</td>
<td>BA-ECON</td>
<td>3(3,0)</td>
<td>Honors Economic Development of Mexico and Central America: PR: Permission of Honors and ECO 2013 or ECO 2023. A study of the economies of Mexico and Central America under NAFTA. Occasional.</td>
</tr>
<tr>
<td>EDE 3942</td>
<td>ED-LTP</td>
<td>3(3,0)</td>
<td>Internship I: PR: EDG 4323, RED 3012, MAE 2801, TSL 4000. Student teaching assignment in an elementary school under the supervision of a certified classroom teacher. Graded S/U. Fall, Spring.</td>
</tr>
<tr>
<td>EDF 1075</td>
<td>ED-ES</td>
<td>3(3,0)</td>
<td>Introduction to Educational Internship: PR: Consent of department chair. Introduction to educational internship with selected partnership institutions. Occasional.</td>
</tr>
<tr>
<td>EDF 2905</td>
<td>ED-ES</td>
<td>3(3,0)</td>
<td>Introduction to Education: A survey course including an orientation to education careers, ethics, and the historical, philosophical and sociological foundations of education. This course has a field component. Fall, Spring.</td>
</tr>
</tbody>
</table>
EDF 2283  ED-ES  3(3,0)  Introduction to Applications of Technology in Education: Classroom applications of instructional media including computers. Occasional.

EDF 3120  ED-ES  3(3,0)  Observing Child Growth and Development: PR: Admission to the program. Provides a comprehensive introduction to the principles and basic theories of child growth and development from prenatal development through age eight. Fall, Odd Spring.


EDF 3601  ED-ES  3(3,0)  Professional Ethics in Education: Pedagogical knowledge, awareness of educational process and the analytical skills necessary for responsible public involvement in educational policy making. Fall, Spring.

EDF 3740  ED-ES  3(3,0)  Foundations of Early Childhood Education: PR: Admission to the program. Overview of Early Childhood Education and services for young children and families. Includes historical, philosophical, and sociological perspectives; learning theories as related to early childhood. Occasional.

EDF 4214  ED-ERTL  3(3,0)  Classroom Learning Principles: PR: EDF 2005 and C.I. Principles of learning as applied to classroom teaching situations, with emphasis on student development, behavior, self-concept and motivation. Fall, Spring.

EDF 4282  ED-ERTL  3(3,0)  Applications of Technology in Education: Classroom applications of instructional media, including computers. Includes experiences with equipment, commercial and teacher-made media, and their uses. Occasional.

EDF 4466  ED-ERTL  3(3,0)  Classroom Assessment & Evaluation Techniques: PR: Completion of Internship I or C.I. Classroom assessment skills in designing traditional and alternative assessments, using results for student evaluation and instructor performance, and interpretation of standardized test results. Graded S/U. Occasional.

EDF 4603  ED-ES  3(3,0)  Analysis of Critical Issues in Education: PR: EDF 4214 or C.I. Critical analysis of contemporary educational issues, including ethical, safety, legal, cultural, and linguistic considerations which directly impact schooling in a democracy. Fall, Spring.

EDF 5245  ED-ES  3(3,0)  Preparation and Management of Classroom Instruction: PR: C.I. Study of strategies for instructional planning and classroom management that result in optimum learning. Occasional.

EDF 5607  ED-ES  3(3,0)  Language, Culture and Pedagogy: Impact and Implications: PR: C.I. Explores in-depth issues surrounding learning needs of students from linguistically and culturally diverse populations. Research on language, culture and pedagogy will be highlighted. Occasional.

EDG 1005C  ED-ES  2(1,1)  Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Education providing a foundation of leadership, scholarship, and service regarding disciplines in the college. Fall, Spring.

EDG 2701  ED-ES  3(3,0)  Teaching Diverse Populations: An introduction to cultural factors and their impact on education and life changes. Explores stereotyping, prejudice and changing classroom demographics. Includes directed field experience. Fall, Spring.

EDG 4323  ED-ES  3(3,0)  Professional Teaching Practices: PR: EDF 2005 or C.I. Analysis of teaching strategies for K-12 settings, including higher order thinking, classroom management, alternative assessment and adaption of instruction for diverse student populations. Fall, Spring.

EDG 4941  ED-ES  1-8(0-8)  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. Occasional.

EDG 4948  ED-ES  3(3,0)  Service Learning: PR: PSY 2012 or C.I. Involvement with community agencies and/or schools to gain a new perspective about the central Florida community. May be repeated for credit. Fall, Spring.

EDG 5745  ED-TLP  3(3,0)  Teaching the Non-English Student: PR: C.I. Bilingual and non-linguistic instruction in curriculum areas in English as a second language. Occasional.

EDG 5941  ED-ES  2-8(0-11)  Clinical Practice: PR: Admission to STEP II, III or IV. Clinical Internship in an appropriate educational setting under the direction of a university supervisor or peer teachers. Occasional.

EDH 5306  ECS-MMAE  1(1,0)  Teaching Methods in Engineering: PR: graduate standing in an engineering discipline. This course will cover basic teaching pedagogy to help engineering students becomes better TAs and help students deliver better technical presentations. Occasional.

EDS 5356  ED-ERTL  3(2,1)  Supervision of Professional Laboratory Experiences: PR: C.I. Study of the undergraduate professional laboratory experiences programs, with emphasis on the role and responsibilities of the Teacher Education Associate or Supervising Teacher. Occasional.


EEC 3268  ED-CFCS  3(3,0)  Play Development: Explores play development, facilitation, intervention and assessment. Designing play environments is emphasized. Fall.

EEC 3301  ED-CFCS  3(3,0)  Active Learning Teaching Strategies: Studies an integrated developmental-interactionist approach to curriculum planning and design. Equipment selection, room arrangement, daily schedules and active learning teaching strategies are emphasized. Occasional.


EEC 3700  ED-CFCS  3(3,0)  Social and Emotional Development of Young Children: Provides an in-depth understanding of the social and emotional development of the young child. Examines the implications for curriculum development. Occasional.

EEC 3940  ED-CFCS  3(0,3)  Integration Internship I: PR: Senior Status; RED 4311 or RED 3310. Field based placement in which the students will have supervised practice integrating course content areas. Occasional.

EEC 4266  ED-CFCS  3(3,0)  Early Intervention: Provides an overview of development assessment, and intervention with at-risk and handicapped infants and toddlers. Occasional.

EEC 4402  ED-CFCS  3(3,0)  Cultural and Family Systems: Explores the institution of family in its cultural context as a living dynamic system. Occasional.

EEC 4524  ED-CFCS  3(3,0)  Organization and Management in Early Childhood: Provides students with managerial and supervisory skills required to administer a developmentally appropriate early childhood program. Occasional.

EEC 4528  ED-CFCS  3(3,0)  Infant/Toddler Care and Education: Provides the knowledge and skills that will enable the student to become a competent worker with very young children and their families. Occasional.

EEC 4604  ED-CFCS  3(3,0)  Guidance of Young Children: PR: ECE 3700. Provides students with techniques to guide the behavior of young children. Occasional.

EEC 4731  ED-CFCS  3(3,0)  Health, Safety, and Nutrition for Young Children: Health and safety issues in early childhood (0-8). Protection from injury and infection; promotion of healthy development, good nutrition, and appropriate health and fitness habits. Spring.


EEC 4943  ED-CFCS  12(0,12)  Student Teaching: Provides opportunities for student teachers to use the knowledge and skills they acquired in a supervised public school setting. Graded S/U. Occasional.
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. Occasional.

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. Spring.

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. Even Fall.

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. Occasional.

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. Occasional.


Teaching the Emotionally Handicapped: Instructional strategies with emphasis on motivational strategies, development, implementation and evaluation of the IEP, modification of regular education instructional practices, crisis intervention and prevention. Occasional.

Instructional Strategies and Curriculum for Students with Emotional Handicaps: PR: EEX 2010, Instructional strategies and specialized curriculum for teaching students with emotional handicaps with emphasis on instructional techniques and use of curriculum materials and programs. Occasional.

Electrical Networks: PR: MAC 2311, MAC 2312, MAC 2313, PHY 2048, PHY 2049, CR: MAP 2302 (to enroll in this course, a C or better for the above courses is required). Analysis and design of linear circuits, transients, ac analysis, power calculations, three-phase circuits, Laplace transform. Fall, Spring.

Circuit Analysis: PR: PHY 203C, Study of electrical networks. Circuit analysis techniques are presented, including DC and steady state analysis. Power calculations, power distribution and dissipation are covered with examples relating to cables, connections, and buses. Not open to EE and CP&E majors. Fall, Spring.

Networks and Systems: PR: EEL 3104. Network functions, Laplace transforms, frequency domain analysis using Fourier series and transforms, sampling theory and z-transforms. Fall, Spring. M&S fee: $15.00

Semi-conductor Devices I: PR: EEL 3104. Electronic devices including p-n junctions, bipolar transistors, field effect transistors and device models. Fall, Spring.

Electronics I: PR: EEL 3123C. Electronics devices, analog electronic circuits, amplifier analysis and design, and frequency effects. Fall, Spring. M&S fee: $15.00

Introduction to Digital Circuits and Systems: PR: MAC 2311, MAC 2312, MAC 2313, PHY 2048, PHY 2049 or C.I. (to enroll in this course, a C or better for the above courses is required). Switching theory and devices. Combinational and sequential logic. Logic design using standard components such as ROM, arithmetic units, multiplexers, registers, and counters. Fall, Spring.


Information Theory: PR: MAC 2147. Fundamentals of information theory and communication systems. Topics include: the definition of information, band width and frequency spectrum, systems design, filters, modulations, demodulators, antennas, and wireless communications. Not open to EE or CP&E majors. Fall, Spring.

Analog and Digital Communication Fundamentals: PR: EEL 3123C. Fundamentals of AM and FM, Baseband pulse and digital signaling, Bandpass signaling, digital modulation and detection, and error probability of simple digital systems. Fall, Spring. M&S fee: $15.00

Linear Control Systems: PR: EEL 3123C. Control theory, transfer function modeling, Nyquist criteria, root locus, Bode plots, and Design of lead and lag compensation. Fall, Spring.

Introduction to Computer Engineering: PR: MAC 2311, MAC 2312, MAC 2313. PHY 2048, PHY 2049, CR: EEL 3342C (to enroll in this course, a C or better for the above courses is required). Introduction to the field of computer engineering. Engineering applications of advanced C-language concepts. C++ topics and applications. Basic computer organization. Assembly language programming. Fall, Spring.


Analog Filter Design: PR: EEL 3123C. Passive and active analog filter design. Fall. M&S fee: $15.00


Fundamentals of Electric Power Systems: PR: EEL 3304 or C.I. Three-phase power representation and analysis, transformers, per unit system, symmetrical components, faults, and transmission lines. Spring.

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. Fall, Spring. M&S fee: $15.00


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. Odd Fall. M&S fee: $15.00

Optical Engineering: PR: EEL 3470, EEL 3552C or C.I. Lens systems, aberrations, sources, radiometry, detectors, physical optics, interferometric devices, applications to engineering design problems. Spring.

Communication Systems: PR: STA 3032, EEL 3552C and EEL 3307C. Information transmission, modulation, and noise; design and comparison systems in the presence of noise. Occasional. M&S fee: $15.00

Digital Communication Systems: PR: EEL 3552C. Sampling and quantization, PAM, PWM, PTM, PCM, and Delta Modulation ASK, FSK, PSK, MPSK, introduction to coding. Fall. M&S fee: $15.00

Satellite Communications: PR: EEL 3552C. The principles of satellite communications, including communications satellites, Earth stations, link analysis, FDMA and TDMA. May be repeated for credit. Fall.


Computer Control Systems: PR: EEL 3567. 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. Occasional. M&S fee: $15.00


EEL 4768C ECS-ECE 4(3,3) Computer System Design II: PR: EEL 4767C and EEL 4851C. Continuation of EEL 4767C. Control and datapath design using a hardware description language, microprogrammed architectures, instruction and arithmetic pipelines, cache and virtual memory and RISC. Fall, Spring. M&S fee: $30.00


EEL 4783C ECS-ECE 3(2,3) Computer-Aided Engineering Design: PR: EEL 4782C. Review of currently available CAE tools for digital hardware and software design applications. Occasional. M&S fee: $5.00

EEL 4791 ECS-ECE 3(2,4) Telemetry and Space Computer Systems: PR: EEL 3552C and EEL 3801C, EEL 3657, EEL 3507C, EEL 3470. Telemetry and computer sub-systems are discussed as they are implemented in the space-launch system "inertial upper stages". Occasional.

EEL 4817H ECS-ECE 3(3,0) Honors Current Topics in Machine Learning II: PR: Consent of Honors and EEL 4817H. Research topics in machine learning that are of current interest to the Machine Learning community. Students will be assigned a research project. With Honors consent. Occasional.

EEL 4818H ECS-ECE 3(3,0) Honors Current Topics in Machine Learning I: PR: Consent of Honors and EEL 3801C or COP 3223 or STA 3032. Machine learning, ART Neural Networks, random neural network, genetic algorithms, decision trees, statistical techniques, and implementation issues. With Honors consent. Occasional.

EEL 4832 ECS-ECE 3(3,0) Engineering Applications of Computer Methods: PR: MAP 2302, STA 3032, EGN 3420. Engineering applications of numerical methods, including solution of differential equations, simulation, optimization, and multidimensional root-finding, integration and series approximations. Fall, Spring.

EEL 4851C ECS-ECE 4(3,3) Engineering Data Structures: PR: EEL 3801C. Design of data structures and algorithms, with emphasis on performance analysis, memory organization, stacks, queues, linked lists, trees, graphs, searches, and sorts. Introduction to object-oriented structures. Fall, Spring. M&S fee: $5.00

EEL 4872 ECS-ECE 3(3,0) Engineering Applications of Intelligent Systems: PR: EEL 4851C. Intelligent models, computer vision, natural language understanding, pattern analysis, knowledge-based systems, symbolic programming, and advanced architectures. Occasional.

EEL 4882 ECS-ECE 3(3,0) Engineering Systems Software: PR: EEL 4851C and EEL 4767C. Introduction to operating systems concepts and facilities for engineering applications, including multiprogramming, resource allocation and management, systems utilities, and operating system implementation. Fall, Spring.

EEL 4884C ECS-ECE 4(3,3) Engineering Software Design: PR: EEL 4851C. Software systems development life cycle, function and object-oriented methodologies, CASE: Analysis, design, and development of a large software project. Fall, Spring. M&S fee: $5.00

EEL 4890 ECS-ECE 3(3,0) Continuous System Simulation I: PR: MAP 2302 Numerical integration techniques and discrete time system models for approximating the dynamics of continuous systems. Occasional.

EEL 4914 ECS-ECE 3(2,1) Senior Design I: PR: EEL 3307C, EEL 3657, and EEL 3552C. Applications of engineering design to realistic and meaningful problems. Constraints such as economic factors, safety, reliability, aesthetics, ethics, social impact and engineering organizations are considered. Fall, Spring.

EEL 4915L ECS-ECE 3(0,3) Senior Design II: PR: EEL 4914. Execution of electrical and computer engineering projects including complete project review, construction, testing and demonstration. Emphasis on design, prototyping, cost, functionality, presentation, team effort and final report. Fall, Spring. M&S fee: $15.00

EEL 5173 ECS-ECE 3(3,0) Linear Systems Theory: PR: EEL 3657. Models and properties of linear systems, transformation, controllability and observability, control and observer designs, MFD, and realization theory. Spring.

EEL 5245C ECS-ECE 3(2,1) Power Electronics: PR: EEL 4309C. Principles of power electronics, power semiconductor devices, inverter topologies, switch-mode and resonant dc-to-dc converters, cycloconverters, applications. Fall.

EEL 5332C ECS-ECE 3(2,1) Thin Film Technology: PR: EEL 3306 or equivalent. Presents the various thin film deposition techniques for the fabrication of microelectronic, semiconductor, and optical devices. Occasional. M&S fee: $30.00


EEL 5353 ECS-ECE 3(3,0) Semiconductor Device Modeling and Simulation: PR: EEL 3307C. Large signal and small signal model development for semiconductor diodes, BJTs, and MOSFETs. Parameter extraction, numerical algorithms, and SPICE simulation are included. Spring.

EEL 5355C ECS-ECE 4(3,3) Fabrication of Solid-State Devices: PR: EEL 3306. Fabrication of microelectronic devices, processing technology, ion implantation and diffusion, device design, and layout. Laboratory includes device processing technology. Fall, Spring. M&S fee: $45.00


EEL 5378 ECS-ECE 3(3,0) CMOS Analog and Digital Circuit Design: PR: EEL 4309C. Advanced principles and design techniques for CMOS ICs including most recent published results. Fall.

EEL 5390 ECS-ECE 3(3,0) Full-Current VLSI Design: PR: EEL 3342C, EEL 3307C. CMOS VLSI design methodologies; full custom chip design, industrial CAD tools; simulation; verification. Spring.

EEL 5432 ECS-ECE 3(3,0) Satellite Remote Sensing: PR: EEL 3470 or PHY 4324. Fundamentals of satellite remote sensing, orbits and geometry, radiative transfer theory, microwave and infrared sensing techniques, ocean, ice and atmosphere geophysical measurements. Occasional.

EEL 5434 ECS-ECE 3(3,0) Microwave Circuits and Devices: PR: EEL 4436C or EEL 5555C. Planar transmission lines; passive microwave circuits; active circuit design using Gunn, IMPATT, FETS, RTDS, etc.: microwave integrated circuits. Occasional.

EEL 5462C ECS-ECE 3(3,1) Antenna Analysis and Design: PR: EEL 3470 or equivalent. Fundamentals of antennas; dipoles, loops, arrays, apertures, and horns. Analysis and design of various antennas. Odd Fall. M&S fee: $5.00


EEL 5517 ECS-ECE 3(3,0) Surface Acoustic Wave Devices and Systems: PR: EEL 3552C. Course discusses SAW technology which includes the physical phenomenon, transducer design and synthesis, filter design and performance parameters. Actual devices and communication systems are presented. Occasional.

EEL 5542 ECS-ECE 3(3,0) Random Processes I: PR: EEL 3552C and STA 3032. Elements of probability theory, random variables, and stochastic processes. Fall, Spring.


EEL 5555C ECS-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. Occasional. M&S fee: $30.00

EEL 5625 ECS-ECE 3(3,0) Applied Control Systems: PR: C.I. Designed to develop basic understanding of advanced control methods for nonlinear systems described by ordinary and partial differential equations and to expose recent results and ongoing research issues in the area of MEMS. Occasional.
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EEL 5630 ECS-ECE 3(3,0)

EEL 5704 ECS-ECE 3(3,0)

EEL 5708 ECS-ECE 3(3,0)

EEL 5722C ECS-ECE 3(3,1)
Field-Programmable Gate Array (FPGA) Design: PR: EEL 4767C or C.I. FPGA architecture and design flow; applications; logic synthesis; technology mapping, placement; routing; multi-FPGA systems; multi-context; reconfigurable computing; evolvable hardware. Even Fall.

EEL 5762 ECS-ECE 3(3,0)

EEL 5771C ECS-ECE 3(2,3)
Engineering Applications of Computer Graphics: PR: EGN 3420 or C.I. Computer graphics in engineering applications. Laboratory assignments. Occasional. M&S fee: $5.00

EEL 5780 ECS-ECE 3(3,0)
Wireless Networks: PR: EEL 4767C or C.I. The wireless networking topics include: cellular networks, multiple access protocols, channel assignment and resource allocation, mobility and location management, handoffs, routing, authentication, admission control and QoS provisioning, network layer issues, wireless data networking (WAP, GSM, GPRS, CDMA, WCDMA). Even Spring.

EEL 5820 ECS-ECE 3(3,0)
Image Processing: PR: MAP 2302, EGN 3420, EEL 4750 or C.I. Fundamentals of signal processing techniques: pictorial image representation; spatial filtering; image enhancement and encoding; segmentation and feature extraction; introduction to image understanding techniques. Odd Spring.

EEL 5825 ECS-ECE 3(3,0)
Pattern Recognition: PR: 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. Occasional.

EEL 5860 ECS-ECE 3(3,0)

EEL 5874 ECS-ECE 3(3,0)
Expert Systems and Knowledge Engineering: PR: EEL 4872 or C.I. Introduction to expert systems in engineering. Expert systems tools and interviewing techniques. This course is hands-on and project oriented. Spring.

EEL 5881 ECS-ECE 3(3,0)
Software Engineering I: PR: EGN 3420, EEL 4851C or C.I. Design, implementation, and testing of computer software for Engineering applications. Fall, Spring.

EEL 5892 ECS-ECE 3(3,0)

EES 3004 ECS-ECE 3(3,0)
Environmental systems: PR: One semester of college level science, prefer Chemistry or Biology. A technical literacy course in environmental systems for wastewater, drinking water, groundwater, soil, and air treatment for non-engineering majors. Occasional.

EES 4111C ECS-CEE 3(2,3)
Biological Process Control: CR: ENV 4561. Engineering design, measurements and analysis of biological systems in environmental engineering for water management, bioenergy products, wastewater treatment, and others. Spring. M&S fee: $45.00

EES 4202C ECS-CCE 3(3,3)
Chemical Process Control: PR: ENV 3001. Engineering design, measurements, and analysis of chemical systems in environmental engineering to control treatment processes such as softening, coagulation, disinfection, scrubbing, neutralization, and others. Fall. M&S fee: $45.00

EES 5318 ECS-CCE 3(3,0)
Industrial Ecology: PR: ENV 3001, ENV 4341. Discussion of similarities between ecological systems and industrial systems with the emphasis on material cycles, energy flow, pollution prevention, organizational structures, and environmental management. Occasional.

EES 5605 ECS-CCE 3(3,0)

EET 2025C ECS-ENT 4(3,2)
Electrical Circuits: PR: EET 1015C or EET 3085C. Electric circuits, power relationships. Bipolar and field effect transistors, multistage amplifiers, power amplifiers. Occasional.

EET 3143C ECS-ENT 4(3,2)

EET 3716 ECS-ENT 3(3,0)

EET 4158C ECS-ENT 3(2,2)
Linear Integrated Circuits: PR: EET 3716, or Consent of Coordinator. Applications of operational amplifiers, comparators, phase-locked loops, timers, regulators, other integrated circuits. Includes amplifiers, active filters, oscillators, differentiators and integrators. Fall. M&S fee: $10.00

EET 4329C ECS-ENT 4(3,2)

EET 4339C ECS-ENT 3(2,2)

EET 4359C ECS-ENT 4(3,2)

EET 4389C ECS-ENT 3(2,2)

EET 4548 ECS-ENT 3(3,0)
Power Systems: PR: EET 2025C or equivalent. Analysis of electrical power systems and energy conversion. 3-phase load, per-unit quantities, circuit constants, rotating machines, 3-phase transformers, transmission lines, power flow, stability and fault calculations. Fall.

EET 4732C ECS-ENT 4(3,3)

EET 4915C ECS-ENT 3(1,4)
Senior Design Project: PR: Electronics Engineering Technology senior entering anticipated graduation semester or C.I. Individual or group project involving project definition planning, development, test and evaluation. Progress reports, final oral presentation and final written report required. Occasional.

EEX 2310 ED-CFCS 3(3,0)
Exceptional Populations in School and Society: Characteristics of exceptionalities in school and society to increase student awareness and comfort levels with individ- uals with exceptionalities. Fall, Even Spring.
EEX 3102 ED-CFCS 3(3,0) Language Development and Communication Disorders: PR: Junior standing. Interdisciplinary approach to language development, identification and remediation of communication and language disorders. Occasional.

EEX 3221 ED-CFCS 3(3,0) Assessment of Exceptional Students: formal and informal assessment techniques for screening, placement, program planning, program evaluation, and monitoring of progress of exceptional students. Fall, Spring.

EEX 3241 ED-CFCS 3(3,0) Methods for Academic Skills for Exceptional Students: PR: EEX 2010, EEX 3864. Teaching strategies, instructional materials, and monitoring techniques for children and adolescents with special needs. Must be taken before Internship I. Fall, Spring.


EEX 3450 ED-CFCS 3(3,0) Young Children With Special Needs: provides an overview of the unique field of early childhood special education, its mission, and approaches to helping young children and their families. Spring.

EEX 3754 ED-CFCS 3(3,0) Parents as Educators: Develop parental awareness of their role in child development and school success. Attention given to social context of parenting and parents as advocates for children. Occasional.

EEX 3864 ED-CFCS 6(0,16) Internship IV: CR: EGD 4323, RED 3012. EEX 2010, EEX 3241. Satisfactory completion of the portfolio. Internship assignment 2 days a week under a certified special education teacher in an elementary or secondary school. May be repeated for credit. Graded S/U. Occasional.


EEX 4066 ED-CFCS 3(3,0) Curriculum and Instructional Strategies for Special Needs Students: PR: EEX 2010, EEX 4054, EEX 3241, EGD 4323, RED 3012, LAE 4314, MAE 2801. Development of highly specialized techniques and curriculum materials to be used with students with emotional, learning, cognitive and physical disabilities. Occasional.

EEX 4601 ED-CFCS 3(3,0) Introduction to Behavior Management: Study of management techniques based on applied behavioral analysis principles for modifying inappropriate behaviors and maintaining appropriate behaviors of exceptional students. Fall, Spring.

EEX 4751 ED-CFCS 3(3,0) Parent Involvement in Education: This course prepares students to successfully interact with and involve parents in their child's education. Occasional.

EEX 4753 ED-CFCS 3(3,0) Parent/Professional Collaboration: The special educator's role in working with families, regular educators, and other professionals in a collaborative relationship. Fall.

EEX 4943 ED-CFCS 12(0,35) Internship II: CR: Completion of specialization. Satisfactory completion of the portfolio. Full day student teaching under a certified special education teacher in an elementary or secondary school. May be repeated for credit. Graded S/U. Occasional.

EEX 5051 ED-CFCS 3(3,0) Exceptional Children in the Schools: PR: Senior standing or C.I. Characteristics, definitions, educational problems, and appropriate educational programs for the exceptional children in schools. Fall, Spring.

EEX 5702 ED-CFCS 3(3,0) Planning Curriculum for Pre-kindergarten Children with Disabilities: Focus on curriculum planning; developmentally appropriate practices and implementation of individualized instruction for pre-kindergarten children with disabilities. Odd Spring.

EEX 5750 ED-CFCS 3(3,0) Communication with Parents and Agencies: Presentation of methods of interacting with community agencies, supporting and collaborating with families, developing a case management system, and facilitating program transition. Occasional.

EGM 3601 ECS-MMAE 3(3,0) Solid Mechanics: CR: EGN 3310; CR: MAP 2302. Concepts of stress, strain, deflection; axial force, torsion, bending; combined stress, Mohr's circle, failure theories; design concepts, application to machines and vehicles. Fall, Spring.

EGN 1006C ECS-ECS 1(1,2) Introduction to the Engineering Profession: PR: New student status or C.I. Overview of academic and professional requirements in various engineering disciplines. Fall. M&S fee: $5.00

EGN 1007C ECS-ECS 1(2,1) Engineering Concepts and Methods: PR: New student status or C.I., EGN 1006C and ENC 1101; CR: SPC 1016. Introduction to the concepts of engineering design through the use of teams: engineering communication; engineering professionalism and ethics. Spring. M&S fee: $5.00

EGN 1036C ECS-MMAE 2(1,1) Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Engineering & Computer Science providing a foundation of leadership, scholarship and service regarding disciplines in the college. Fall, Spring.


EGN 1111C ECS-MMAE 2(1,3) Engineering Computer Graphics: PR: Trigonometry. Spatial visualization, sketching and graphical presentation as a form of computerized engineering communication. Engineering drawing, descriptive geometry and graphical solution techniques using computer software. Fall, Spring. M&S fee: $10.00


EGN 2920C ECS-IEMS 2(1,1) LEAD Colloquium: PR: C.I., LEAD Scholars Program. Must have completed at least two of the following with a grade of B or better, IDS 1040C, GBI 1091C, EGN 1036C, EGD 1005C or HSC 1931C. Provides experiential leadership experience in an appropriate leadership setting under the direction of a university supervisor with the LEAD Scholars Program. May be repeated for credit. Occasional.

EGN 3060C ECS-ECS 3(2,3) Introduction to Robotics: PR: Engineering majors take EGN 1007C and (EEL 3004 or EGN 3373); Computer Science majors take COP 3330, COP 3063C and COT 3960. Introduction to classical and modern topics in robotics: mechanisms and mechatronics, sensors, data processing, and vision, kinematics and dynamics, path and motion planning, controls, AI and evolutionary computing, cooperative control and behaviors. Occasional.

EGN 3211 ECS-ECE 3(3,0) Engineering Analysis and Computation: PR: MAC 2311. Engineering analysis and computation with structured constructs. Subscribed variables, subprograms, input/output. Batch processing and time sharing. Engineering applications will be emphasized. Fall, Spring.

EGN 3310 ECS-CEE 3(3,0) Engineering Analysis-Statics: PR: PHY 2048; CR: MAC 2312. Fundamental concepts of mechanics, including resultant of force systems, free-body diagrams, equilibrium of rigid bodies, and analyses of structures. Fall, Spring.

EGN 3310H ECS-CEE 3(3,0) Engineering Analysis-Statics (Honors): PR: Permission of Honors and PHY 2048; CR: MAC 2312. (Honors section for EGN 3310) Advanced treatment of material and additional topics. More challenging assignments. Project work. May be repeated for credit. Fall.

EGN 3321 ECS-MMAE 3(3,0) Engineering Analysis-Dynamics: PR: EGN 3310; CR: MAC 2323. Kinematics and Kinetics of particles and rigid bodies; mass and acceleration, work and energy, impulse and momentum. Fall, Spring.

EGN 3321H ECS-ECE 3(3,0) Engineering Analysis - Dynamics Honors: PR: Permission of Honors and EGN 3310. Kinematics and Kinetics of particles and rigid bodies; mass and acceleration; work and energy; impulse and momentum. Occasional.

these environments.


Engineering Analysis: PR: High-level computer language; MAC 2312. Engineering applications of numerical methods including curve fitting, matrix operations, root finding, interpolating, integration and plotting. Fall, Spring.


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. Occasional.


Interdisciplinary Design I: PR: Industrial: EIN 3843C; Comp and Elec: EEL 3070C, EEL 3617, EEL 3520C, EEL 3801C; Aero: EAS 3810C, CR: EML 4312C, EAS 4304C; Comp Sci: COT 3900, COP 3500C; Mech: EML 3500, EML 3701, EML 3503C, CR: EML 4312C, EML 3804C. Application of the design process for interdisciplinary students to solve state-of-the-art engineering problems by system analysis, design, integration, manufacture and testing methods. Fall.

Interdisciplinary Design II: PR: EGN 4412C. Continuation of Interdisciplinary Design I May be repeated for credit. Spring.
EIN 4545C  ECS-IEMS  3(2,2)  Industrial Engineering Applications in The Service Industries:  PR: EIN 3314C, ESI 4312, ESI 4234 or CI.  Application of industrial engineering principles to the quality and productivity of service industries such as restaurants, banks, hotels, health care, etc.  Even Fall.

EIN 4621C  ECS-IEMS  3(2,2)  Computer-Aided-Manufacturing:  PR: EIN 4391C.  Computer-Aided-Manufacturing (CAM) including computer numerical control (CNC), robotics, parts classification (GT) and manufacturing resource planning (MRP).  Occasional.  M&S fee: $45.00

EIN 4891C  ECS-IEMS  3(2,3)  Industrial Engineering Senior Design Project:  PR: EIN 4516C.  Senior standing.  Capstone design course; application of IEMS techniques to real-world design applications.  Spring.  M&S fee: $55.00

EIN 5108  ECS-IEMS  3(3,0)  The Environment of Technical Organizations:  PR: Graduate status or CI.  EGN 4624 recommended.  Presentation and investigation into the principles required to transform technologists into managers focusing on engineers, scientists, and other professionals providing services in technically-oriented organizations.  Fall.

EIN 5117  ECS-IEMS  3(3,0)  Management Information Systems I:  PR: C.I.  The design and implementation of computer-based Management Information Systems.  Consideration is given to the organizational, managerial, and economic aspects of MIS.  Spring.

EIN 5140  ECS-IEMS  3(3,0)  Project Engineering:  PR: Graduate standing or C.I.  Role of engineer in project management with emphasis on project life cycle, quantitative and qualitative methods of cost, schedule, and performance control.  Fall, Spring.

EIN 5248C  ECS-IEMS  3(2,2)  Ergonomics:  PR: C.I.  Applications of anthropometry, functional anatomy, mechanics, and physiology of musculoskeletal system concepts in the engineering design of industrial tools, equipment, and workstations.  Fall.  M&S fee: $20.00

EIN 5251  ECS-IEMS  3(3,0)  Usability Engineering:  PR: STA 3032 or equivalent.  Usability paradigms/principles; cognitive walkthroughs; heuristic, review-based, model-based, empirical and story-board evaluation techniques; usability testing; laboratory techniques; and field study approaches.  Spring.

EIN 5255C  ECS-IEMS  3(2,2)  Interactive Simulation:  PR: Graduate standing or C.I.  Introduction to significant topics relative to the development and use of simulators for knowledge transfer in the technical environment.  Fall, Spring.

EIN 5317  ECS-IEMS  3(3,0)  Training System Design:  PR: seniors, post bac or graduate standing or C.I.  How human performance deficiencies should be addressed from a systems design point of view.  Manpower, personnel, and training considerations will be examined.  Fall.

EIN 5346  ECS-IEMS  3(3,0)  Engineering Logistics: Study of the logistics life cycle involving planning, analysis and design, testing, production, distribution, and support.  Occasional.

EIN 5356  ECS-IEMS  3(3,0)  Cost Engineering: Cost estimation and control of engineering systems throughout the product life cycle.  Occasional.

EIN 5368C  ECS-IEMS  3(2,2)  Integrated Factory Automation Systems:  PR: EIN 4391C or CI.  An introduction to automated material handling systems, industrial robots, automated guided vehicles, automated storage and retrieval systems, economics, justification.  Odd Fall.  M&S fee: $20.00

EIN 5388  ECS-IEMS  3(3,0)  Forecasting:  PR: ESI 5219.  Industrial applications of forecasting methods with emphasis on computer-based packages.  Occasional.

EIN 5392C  ECS-IEMS  3(2,2)  Manufacturing Systems Engineering:  PR: EIN 4391C or C.I.  The integration of manufacturing technologies and information processing concepts into a system for controlling the manufacturing enterprise.  Occasional.  M&S fee: $20.00

EIN 5607C  ECS-IEMS  3(2,2)  Computer Control of Manufacturing Systems:  PR: EIN 4391C, and EIN 4621C or EML 4550C, or C.I.  Automated systems for manufacturing, numerical control (NC) machines, NC programming, robot control and programming, machine and system control.  Spring.  M&S fee: $45.00

EIN 5936  ECS-IEMS  1(1,0)  Seminar in Industrial Engineering: Doctoral Research:  PR: C.I.  Essential topics for doctoral research including research areas, skills, funding, proposals, ethics, mentors, seminars, societies, conferences, presentations, interviewing, grants, and publishing.  Fall.

ELD 4011  ED-CFCS  3(3,0)  Intro to Specific Learning Disabilities:  Nature and needs of students with learning disabilities to include history, theories, characteristics, definitions, assessments, issues, and application of effective teaching practices.  Occasional.

ELD 4242  ED-CFCS  3(3,0)  Program Planning for Specific Learning Disabilities:  PR: Senior standing.  Development of highly specialized techniques, curriculum materials, to be used with students with special learning disabilities.  Occasional.


EMA 3012C  ECS-MMAE  2(2,2)  Experimental Techniques in Mechanics and Materials:  PR: EGN 3365, EGN 3801.  Materials characterization (optical and scanning electron microscopy, x-ray diffraction), heat treatment, mechanical testing (hardness, tensile, impact, etc.).  Fall, Spring.

EMA 3014  ECS-MMAE  3(3,0)  Nanomaterials Characterization and Applications:  PR: EMA 3891.  Microstructural and mechanical characterization of nanomaterials, nano-coatings, corrosion, magnetic, quantum dots for solar cells, materials for hydrogen economy, laboratory on material characterization.  Occasional.

EMA 3124  ECS-MMAE  3(3,0)  Design and Selection of Materials:  PR: EGM 3601, and EGN 3365 or EMA 3706.  Relationship between processing, structure and properties of various engineering materials and their selection in engineering design.  Fall.

EMA 3691  ECS-MMAE  3(3,0)  Nanomaterials Process Engineering:  PR: CHS 1440 or CHM 2045C, and PHY 2048 or PHY 2053C.  Nanomaterials, processing, nano-machining, nano-compositions, nanocomposites and computations of devices.  Occasional.

EMA 3706  ECS-MMAE  3(3,0)  Structure and Properties of Aerospace Materials:  PR: CHS 1440 or CHM 2045C and MAC 2312.  Atomic structure, bonding, crystal structures, solidification, phase transformations, heat treatment, mechanical behavior, specific aero-space materials, materials design.  Fall.


EMA 4503  ECS-MMAE  3(3,0)  Materials Characterization Techniques:  PR: EMA 3012C, and EGN 3365 or EMA 3706.  Theory and practice of commonly used techniques for characterization of crystal structure, microstructure and chemistry.  Occasional.

EMA 4506  ECS-MMAE  3(3,0)  Emerging Materials:  PR: EGN 3365, or EMA 3706.  Structure, properties and processing of modern emerging materials.  Occasional.


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EME 5060 ECS-MMAE 3(3,0)  Polymer Science and Engineering: PR: EGN 3365. Structure and properties of polymers, preparation and processing of polymers, mechanical properties, use in manufacturing and high tech applications. Occasional.


EME 5108 ECS-MMAE 3(3,0)  Surface Science: PR: PHY 2049 and C.I. Methods of chemical and physical analysis of surfaces, with emphasis on ultra-high vacuum spectrosocopies utilizing electron, ion and photon probes. Occasional.

EME 5140 ECS-MMAE 3(3,0)  Introduction to Ceramic Materials: PR: EGN 3365. Uses, structure, physical and chemical properties, and processing of ceramic materials. Discussions will include recent developments for high technology applications. Occasional.


EME 5504 ECS-MMAE 3(2,2)  Modern Characterization of Materials: PR: EMA 5104 or C.I. Techniques and operation of instrumentation (light, scanning, transmission, and auge microscopy) for the characterization of structure, defects, composition, and surfaces. Occasional.

EME 5505 ECS-MMAE 3(2,2)  Scanning Electron Microscopy: PR: EMA 5104 or C.I. A review of electron optics, beam/specimen interactions, image formation, x-ray analysis, specimen preparation, microelectronic applications and crystallography in the SEM. Occasional.

EME 5517 ECS-MMAE 3(2,2)  Advanced Materials Characterization by Ion Beam Analysis: PR: EMA 5504 or C.I. Principle of interactions between ion beam and solid materials; sputtering and scattering theories; fundamentals and applications of secondary ion mass and Rutherford Backscattering spectrometry. May be repeated for credit. Occasional.

EME 5584 ECS-MMAE 3(3,0)  Biomaterials: PR: EGN 3365. Properties of natural biological materials and their relation to microstructure, biocompatibility, specific applications in orthopedic, cardiology, visual, neural, and reconstruction implants. Even Spring. M&S fee: $45.00

EME 5585 ECS-MMAE 3(3,0)  Materials Science of Thin Films: PR: Graduate standing or C.I. Interaction of thin film processing techniques with the structure and properties of the materials deposited. Odd/Fall.

EME 5586 ECS-MMAE 3(3,0)  Photovoltaic Solar Energy Materials: PR: EGN 3365. Materials properties basic to photovoltaics, structures, homojunction, heterojunction, and surface barrier solar cells, AM0-1D modeling of c-Si, GaAs bulk and a-Si:H, CIGS, and CdTe thin film solar cells. May be repeated for credit. Occasional.


EME 5588 ECS-MMAE 3(3,0)  Biocompatibility of Materials: PR: EGN 3365 or C.I. Biocompatibility and biocompatibility; Cell-biomaterials interactions; Engineering bone & cartilage; Soft-tissue replacement; Total hip replacements; Nanostructured biomaterials; Imaging techniques, Preservation techniques for biomaterials, MSDS and FDA compatibility data. Occasional.

EME 5610 ECS-MMAE 3(3,0)  Laser Materials Processing: PR: EGN 3343 or EMA 5106 or C.I. Laser beam optics; laser-material interactions; laser heating, melting, vaporization. Plasma formation; laser surface treatment, welding, machining; laser material synthesis. Thin film deposition, crystal growth. Occasional.

EME 5705 ECS-MMAE 3(3,0)  High Temperature Materials: PR: EMA 5104 or C.I. Desired material properties for high temperature applications, physical metallurgy of such materials, corrosion, hot corrosion and oxidation properties, aerodynamically and landing-based gas turbine requirements. Occasional.

EME 2040 ED-ERTL 1(1,0)  Technology for Educators: Introduction to technology for educators, including classroom management tools, multimedia, communication networks, interactivity, educational software and legal, ethical and social issues. Fall, Spring. M&S fee: $3.00

EME 5050 ED-ERTL 3(3,0)  Fundamentals of Technology for Educators: PR: Postbac or C.I. Designed to provide participants with an introduction to the field of educational technology content with emphasis on using and integrating technology in K-12 to improve the teaching and learning process. Fall, Spring.

EME 5051 ED-ERTL 3(3,0)  Technologies of Instruction & Information Management: PR: Acceptance into Ed Media program or C.I. Trends and practices in utilizing instructional media and information technologies. Emphasis on new and emerging technologies and their effects on the school and media program. Fall.

EME 5053 ED-ERTL 3(3,0)  Electronic Resources for Education: PR: Graduate standing or C.I. Study and application of electronic resources available for education including techniques for locating, evaluating, and integrating them into the classroom. Fall.

EME 5057 ED-ERTL 3(3,0)  Communication for Instructional Systems—Application: Applications of technology, communications theory, platform skills, and instructional design to the effective presentation of training programs and instruction. Occasional.

EME 5208 ED-TLP 3(3,0)  Production Techniques for Instructional Settings: PR: Acceptance into Ed Media Program or C.I. Skills in producing instructional materials. Emphasis on graphic, audio, and video, and photograpic skills and the application of instructional and communication theories. Spring.

EME 5225 ED-TLP 3(3,0)  Media for Children and Young Adults: PR: Acceptance into Ed Media Program or C.I. Survey of materials for children’s and young adults’ informational and recreational needs; analysis, evaluation, and utilization of print and non-print materials. Spring.

EME 5810 ED-TLP 1(1,0)  Teaching and Learning with Technology: Overview of technologies for teaching and for learning. Practical strategies for using technology in the classroom. (May be repeated 3 times for credit.) Occasional.

EML 3001C ECS-MMAE 1(1,2)  Machine Shop Practice: PR: EGN 1111C or C.I. Set up and operation of mill and lathe, cutting tools, holding devices, cutting speeds and feed rates. Measurement devices. Hands-on experience. Occasional. M&S fee: $15.00


EML 3101 ECS-MMAE 3(3,0)  Thermodynamics of Mechanical Systems: PR: EGN 3343. Applied thermodynamics, availability analysis, thermodynamic relations of properties. Thermodynamic design analysis of complete mechanical systems. Fall.

EML 3262 ECS-MMAE 3(3,0)  Kinematics of Mechanisms: PR: EGN 3321. Graphical, mathematical, and computer-aided kinematics, analysis, and synthesis of basic mechanisms. Fall.


EML 3701 ECS-MMAE 3(3,0)  Fluid Mechanics I: PR: MAP 2302, EGN 3321, EGN 3343. Basic principles of continuum fluid mechanics. Integral and differential forms of governing equations, fluid statics, dimensional analysis, measurements, internal flows. Fall, Spring.


EML 4024C ECS-MMAE 3(2,2) Engineering Design Practice: PR: EML 3034C and EML 3500 or EAS 4200. Basic CAD/CAM solid modeling techniques in a project oriented environment. Students will construct part models, drawings, and assemblies. Use of in-house software. Fall, Spring.


EML 4260 ECS-MMAE 3(3,0) Dynamics of Machinery: PR: EML 3562 and EML 4220. Critical speeds and response of flexible rotor systems, whirl, gyroscopic effects; balancing of rotating and reciprocating masses; cam dynamics. Occasional.

EML 4264 ECS-MMAE 3(3,0) Vehicle Dynamics: PR: EML 3562 and EML 4220. Basic mechanics governing vehicle dynamics, performance and handling; acceleration, braking, ride, cornering, suspension, steering, rollover. Occasional.

EML 4293 ECS-MMAE 3(3,0) Essentials of Miniature Engineering Systems: PR: Graduate status or C.J. Engineering of miniature mechanical, thermal, energy, and electrical systems, including advantages, microfabrication methods, and future trends. Occasional.

EML 4304C ECS-MMAE 2(1,3) Thermo-Fluids Measurements: PR: EML 3303C and EML 4142. Measurements in thermo-fluid systems with emphasis on design of experiments. Spring. M&S fee: $45.00.

EML 4312C ECS-MMAE 3(2,3) Feedback Control: PR: EGN 3321, MAP 2302, EGN 3373 and EML 4220 or EAS 4210C. Mathematical modeling of dynamic systems: transient and steady state response; Root Locus and s-transform methods; discrete systems analysis; controller design. Fall.

EML 4411 ECS-MMAE 3(3,0) Mechanical Power Systems: PR: EML 3101. Analysis and design of large power generating systems and components, with emphasis on steam plants utilizing both chemical and nuclear fuels. Occasional.

EML 4501C ECS-MMAE 3(1,6) Engineering Design I: PR: EML 3500, EML 3701 and EML 3353C. Application of the design process in the team solution of a state-of-the-art problem. Aerospace, mechanical, thermal-fluid, or material problems are considered. Fall. Spring. M&S fee: $15.00.

EML 4502C ECS-MMAE 3(1,6) Engineering Design II: PR: EML 4501C. Continuation of the design process in the team building and testing of a prototype. A test plan and a test report are completed. Fall, Spring. M&S fee: $45.00.

EML 4535C ECS-MMAE 3(2,3) CAD/CAM: PR: EGN 3343, EML 3034C, and EGM 3601; CR EAS 4200 or EML 3500. CAD/CAM/FEM computational technology. Basic concepts. Concurrent engineering approach to mechanical, thermal, and aerospace systems design and analysis. Use of in-house software. Fall, Spring. M&S fee: $15.00.

EML 4600 ECS-MMAE 3(3,0) HVAC Systems Engineering: PR: EML 3101 and EML 4X6. Heating, ventilation, air-conditioning and refrigeration principles and design systems design. Psychrometrics, heating and cooling loads, equipment and components, and distribution systems. Fall.

EML 4703 ECS-MMAE 3(3,0) Fluid Mechanics I: PR: EML 3701. Continuation of Fluid Mechanics I. External flows, fluid machinery, compressible flows, design projects. Fall.


EML 5105 ECS-MMAE 3(3,0) Gas Kinetics and Statistical Thermodynamics: PR: EAS 4134 or EML 4703. Molecular and statistical viewpoint of gases and thermodynamics; Boltzmann collision integral, partition functions, non-equilibrium flows. Applications in thermo-fluid systems. Occasional.


EML 5211 ECS-MMAE 3(3,0) Continuum Mechanics: PR: EML 3500 or EML 4703 or EAS 4200 or C.I. Introduction to tensors; deformation and strain; stress, balance laws, applications in Newtonian fluid dynamics and isotropic linear elasticity. Fall.

EML 5224 ECS-MMAE 3(3,0) Acoustics: PR: EML 4220. CR: EML 5060. Elements of vibration theory and wave motion; radiation, reflection, absorption, and transmission of acoustic waves; architectural acoustics; control and abatement of environmental noise pollution; transducers. Occasional.


EML 5245 ECS-MMAE 3(3,0) Tribology: PR: EGN 3365, EGN 3331 and EML 3701. Principles of fluid film lubrication (liquid and gas, journal and thrust bearings), contact mechanics, rolling element bearings, design of bearings and load bearing surfaces, friction and wear of materials, tribostesting. Occasional.


EML 5291 ECS-MMAE 3(3,0) MEMS Materials: PR: EML 5060, EML 5211, or C.I. Introduction of materials that are frequently used for MEMS applications such as silicon, metal, ceramics and polymers. The course will focus on fundamental principles involved in structures and properties of the materials, and their applications in MEMS. Even Spring.

EML 5292 ECS-MMAE 3(3,0) Fundamental Phenomenon and Scaling laws in Micro- and Nano-scales: PR: EML 5060, EML 5211, or C.I. Introduction to meso-, micro-, and nano-scales, and related terminology, constitutive relationships at these scales and how these relationships affect the behavior and performance of systems. Effect of miniaturization on a few common engineering systems. Odd Fall.


EML 5402 ECS-MMAE 3(3,0) Turbomachinery: PR: EML 3101, EML 4703 or EAS 4134. Application of the principles of fluid mechanics, thermodynamics, and aerodynamics to the design and analysis of steam and gas turbines, compressors, and pumps. Occasional.

EML 5532C ECS-MMAE 3(2,3) Computer-Aided Design for Manufacture: PR: EGN 4535C. Builds on introductory material covered in EML 4535C. Topics include computer modeling for the synthesis, simulation, design and manufacture of mechanical, thermal, and aerospace systems. Even Fall. Spring. M&S fee: $15.00.


EML 5587C ECS-MMAE 3(2,3) Mechanics of Biostructures I: PR: Graduate standing or C.I. Part I of a two semester course. Mechanical analysis of hard (bone) and soft (organs, connective tissues, etc.) biostructures and the analysis includes preparation and experimental testing for constitutive equations for predictive modeling. Even Fall.

EML 5588C ECS-MMAE 3(2,3) Mechanics of Biostructures II: PR: EML 5587C. Part II of a two semester course. Mechanical analysis of hard (bone) and soft (organs, connective tissues, etc.) biostructures and the analysis includes preparation and experimental testing for constitutive equations for predictive modeling. Even Fall, Odd Spring.

EML 5605 ECS-MMAE 3(3,0) Applied HVAC Engineering: PR: EML 4600. Applications of HVAC systems design with the objective of optimizing energy efficiency, humidity control, ventilation and indoor air quality. May be repeated for credit. Occasional.

EML 5606 ECS-MMAE 3(3,0) HVAC Systems Engineering: PR: EML 3101, EML 4142, EML 3034C. Heating, ventilation, air-conditions and refrigeration principles, system design and analysis. May be repeated for credit. Odd Fall.


EMR 4011 ED-CFCS 3(3,0) Intro to Mental Retardation: Nature and needs of mentally handicapped students with emphasis on etiology, prevention, identification, and application of effective practices and recognition of trends and standards. Occasional.

EMR 4362 ED-CFCS 4(4,0) Teaching Students with Mental Handicaps: PR: EEX 2010. Relationship between the characteristics of students with mental handicaps and specialized instructional materials, strategies and curriculum. Occasional.

EMR 4372 ED-CFCS 3(3,0) Curriculum Method and Materials for Retarded Persons: PR: Senior standing. Development of highly specialized techniques, curriculum and materials to be used with students with mental retardation. Occasional.

ENC 1101 CAH-ENG 3(3,0) Composition I: Expository writing with emphasis on effective communication and critical thinking. Emphasizing the writing process writing topics are based on selected readings and on student experiences. The "NC" grading policy applies to this course. Fall, Spring.

ENC 1101H CAH-ENG 3(3,0) Honors Freshman Composition I: PR: Score of 60+ on TSWE of SAT or C.I. and permission of Honors. Expository writing with emphasis on effective communication and critical thinking. Emphasizing the writing process writing topics are based on selected readings and on student experiences. The "NC" grading policy applies to this course. Honors-level content. Fall, Spring.

ENC 1102 CAH-ENG 3(3,0) Composition II: PR: ENC 1101 with a grade of "C" or better. Focus on extensive research in analytical and argumentative writing based on a variety of readings from the humanities. Emphasis on developing critical thinking and diversity of perspective. The "NC" grading policy applies to this course. Fall, Spring.

ENC 1102H CAH-ENG 3(3,0) Honors Freshman Composition II: PR: ENC 1101H with a grade of "C" or better and C.I. and permission of Honors. Same as ENC 1102, with honors-level content. Note on Freshman English Program: ENC 1101 and 1102 must be taken before enrolling in any English course numbered above 1102. The "NC" grading policy applies to this course. Fall, Spring.

ENC 2127 CAH-ENG 3(3,0) Grammar and Composition: A systematic study of grammar and mechanics to improve editing for clarity and accuracy in writing. Occasional.

ENC 2211 CAH-ENG 3(3,0) Writing for the Business Professional: PR: ENC 1102, Junior standing or C.I. Emphasis on clear expository writing. Focus on extensive research in analytical and argumentative writing based on a variety of readings from the humanities. Emphasis on developing critical thinking and diversity of perspective. The "NC" grading policy applies to this course. Fall, Spring.

ENC 2411C CAH-ENG 3(2,1) Technical Writing Style: A systematic study of the principles and mechanics of technical writing, layout and design of data, and translation of technical documents for the lay audience. Fall, Spring.

ENC 3211 CAH-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. Fall, Spring.

ENC 3211H CAH-ENG 3(3,0) Honors Theory and Practice of Technical Writing: PR: Permission of Honors and ENC 1102H or equivalent credit. Taught at Honors level. Definition, history, scope, practices, and theoretical bases of technical writing and its relationship to general English studies. Occasional.

ENC 3241 CAH-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. Fall, Spring.

ENC 3241H CAH-ENG 3(3,0) Honors Writing for the Technical Professional: PR: Permission of Honors and ENC 1102H or equivalent credit. Taught at Honors level. Instruction and practice in expository prose used in technical writing, layout and design of data, and translation of technical documents for the lay audience. Occasional.

ENC 3250 CAH-ENG 3(3,0) Professional Writing: PR: ENC 1102, Junior standing, and 12 upper division hours in the student's major. Major elements of professional writing with emphasis on composition of reports, proposals, letters, and memos. Fall, Spring.

ENC 3310 CAH-ENG 3(3,0) Magazine Writing I: PR: Grade of C (2.0) or better required in ENC 1102. Intensive practice in description narration, exposition and argumentation; control of tone, mood, viewpoint, and level of diction. Applicable to article, essay, and short story writing. Fall, Spring.

ENC 3311 CAH-ENG 3(3,0) Advanced Expository Writing: PR: Grade of C (2.0) or better required in ENC 1102. Practice of expository writing directed to general reader. Fall, Spring.

ENC 3905 CAH-ENG 3(3,0) Directed Experience in Writing: PR: ENC 1102, C.I. Individualized topics of study and/or research in writing with personalized faculty direction. May be repeated for credit. Occasional.

ENC 3942 CAH-ENG 3(3,0) Journal Writing Practicum: An interdisciplinary practicum in journal writing as a literary genre and a means of self-expansion. Occasional.

ENC 4215 CAH-ENG 3(3,0) Technical Publication and Project Management: PR: ENC 3211 or ENC 3241 or C.I. New publishing technology, stressing composition and printing; word processing, automated text processing, methods of reproduction. Introduction of graphic style, layout, and boardwork. Spring.

ENC 4218 CAH-ENG 3(3,0) The Visual in Technical Documentation: PR: ENC 4293. Relevant theories of the visual and their application to technical communication practice. Fall.

ENC 4262 CAH-ENG 3(3,0) International Technical Communication: PR: Grade of C (2.0) or better required in ENC 3211 or ENC 3241 or C.I. International issues in the field of technical communication including internationalizing documents, user interface design, international collaboration, and rhetorical and logical challenges. Occasional.

ENC 4265 CAH-ENG 3(3,0) Writing for the Computer Industry: PR: ENC 1102 and Junior standing, or C.I. Creating different kinds of software manuals or online help systems for the computer industry. Occasional.

ENC 4275 CAH-ENG 3(3,0) Writing/Consulting: theory & practice: PR: C.I. Theory and practice of assessing and responding to writing from the standpoint of a collaborator, as opposed to evaluator. Occasional.

ENC 4280 CAH-ENG 3(3,0) Technical Writing Style: PR: ENC 3211 or ENC 3241 or C.I. Strategies for understanding and improving writing styles, particularly for a variety of technical writing genres. Spring.
ENC 4290 CAH-ENG 3(3,0) Usability Testing for Technical Communication: PR: ENC 4293 or C.I. Usability theory and techniques for evaluating manuals, online documentation, and other technical communication genres. Occasional.

ENC 4293 CAH-ENG 3(3,0) Technical Documentation I: PR: ENC 3211 or ENC 3241. Practice in translating highly technical information to organized documentation: hardware, software, military specifications. Theory of designing and organizing technical manuals. Preparation of proposals. Interview skills. Fall, Spring.

ENC 4294 CAH-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. Fall, Spring. M&S fee: $10.00

ENC 4295 CAH-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. Fall, Spring. M&S fee: $10.00

ENC 4312 CAH-ENG 3(3,0) Theory & Practice Persuasive Writing: PR: ENC 1102. A study of the theory and practice of persuasion, including logical, emotional and ethical appeals. Occasional.

ENC 4360 CAH-ENG 3(3,0) Nature Writing: PR: CWR 3013 or C.I. Students will write essays that explore different approaches to writing about the natural world, and will discuss issues raised by such writing. Occasional.

ENC 4414 CAH-ENG 3(3,0) Writing and Hypertext: PR: Grade of C (2.0) or better required in ENC 3211 or ENC 3241. Theories of electronic literacy and information to develop a more critical sensibility regarding hypertext. Occasional.

ENC 4415 CAH-ENG 3(3,0) Digital Rhetorics and The Modern DIYactic: PR: ENC 1102. This online course explores the development of digital online rhetorics through a close reading and analysis of formative rhetorical texts, modern American fiction and films. Fall, Spring.

ENC 5214 CAH-ENG 3(3,0) Production and Publication Methods: PR: Graduate status or senior standing or C.I. Theory and practice of production and publication methods for technical writers. Occasional.

ENC 5216 CAH-ENG 3(3,0) Editing Professional Writing: PR: Graduate status or senior standing or C.I. The study of major issues in editing, including levels of edit, grammar and mechanics, visuals, style, and the impact of technology. Fall, Spring.

ENC 5219 CAH-ENG 3(3,0) Graphics in Technical Writing: PR: Graduate status or senior standing or C.I. A study of the creation and editing of graphics in technical documents. Occasional.

ENC 5225 CAH-ENG 3(3,0) Theory and Practice of Document Usability: PR: Graduate status or senior standing or C.I. Presents theory and practice of how document usability was assessed and improved. Occasional.

ENC 5237 CAH-ENG 3(3,0) Writing for the Business Professional: PR: Graduate status or senior standing or C.I. A study of the major document designs for professionals in business, focusing on audience, purpose, style, arrangements, and content. Fall, Spring.

ENC 5245 CAH-ENG 3(3,0) Teaching Professional Writing: PR: Graduate status or senior standing or C.I. Prepares students to determine writing needs of professional discourse communities, analyze those needs, and design in-house or freelance writing projects to address those needs. Occasional.

ENC 5256 CAH-ENG 3(3,0) Gendered Rhetoric: PR: Graduate status or senior standing or C.I. Questions women’s and men’s linguistic choices, the influence of medium and discipline of discourse, and consequences of status, power, and oppression. Occasional.

ENC 5276 CAH-ENG 3(3,0) Writing/Consulting: Theory & Practice: PR: Graduate status or senior standing or C.I. The theory and practice of assessing and responding to writing as a collaborator (as opposed to evaluator). Occasional.

ENC 5277 CAH-ENG 3(3,0) Teaching Writing With Computers: PR: Graduate status or senior standing or C.I. To provide immersion in the theories and practices of writing in electronic spaces including current discourse conventions from speech and print media. Occasional.

ENC 5291 CAH-ENG 3(3,0) Developing Professional Writing Projects: PR: Graduate status or C.I. Developing Professional Writing is a course in which students learn the basics of planning writing projects, including scheduling, budgeting, collaborative writing, production, and problem solving. Occasional.

ENC 5306 CAH-ENG 3(3,0) Persuasive Writing: PR: Graduate status or senior standing or C.I. Theory and practice of writing persuasively. Occasional.

ENC 5335 CAH-ENG 3(3,0) Rhetorical Traditions: PR: Graduate status or senior standing or C.I. To provide a foundation for research by familiarizing students with the chronological spectrum practice and theory of rhetorical form classical to contemporary times. Fall, Spring.

ENC 5337 CAH-ENG 3(3,0) Modern Rhetorical Theory: PR: Graduate status or senior standing or C.I. With special attention to the rhetor-audience relationship, the course studies history and practice of modern rhetorical theory. Spring.

ENC 5338 CAH-ENG 3(3,0) The Rhetorics of Public Debate: PR: Graduate status or senior standing or C.I. To examine how rhetorical theories further community goals, including activist, political, legislative, and other significant public debates. Occasional.

ENC 5344 CAH-ENG 3(3,0) Proposal Writing: PR: Graduate status or senior standing or C.I. Theory and practice of writing proposals. Occasional.

ENC 5425 CAH-ENG 3(3,0) Hypertext Theory and Design: PR: graduate status, post ba, senior standing, or C.I. Theoretical and practical study of the uses and premises of hypertext. Occasional.

ENC 5427 CAH-ENG 3(3,0) Hypertext: PR: Graduate status or senior standing or C.I. A study of the theory and practice of computer-driven hyper-text. Occasional.

ENC 5705 CAH-ENG 3(2,1) Theory and Practice in Composition: PR: Graduate status or senior standing or C.I. Intensive study of theories of composition, with practical experience in the writing laboratory and in composition classes. Spring.

ENC 5712 CAH-ENG 3(3,0) Studies in Literacy and Writing: PR: Graduate standing or C.I. To study the theories of cultural and critical literacy, definitions of literacy, and current political issues in literacy studies. Odd Fall.

ENC 5745 CAH-ENG 3(3,0) Teaching Practicum: PR: ENC 5705, graduate status or senior standing, or C.I. To supplement and deepen theoretical and practical experiences during their first teaching semester. GTA’s will participate in staff development and individual conferences with their mentors. Occasional.

ENC 5930 CAH-ENG 3(3,0) Current Topics in Professional Writing: PR: Graduate status or C.I. Students will learn how to produce texts for specialized fields of discourse, including the legal profession, as well as for general publication. Occasional.

ENC 5945 CAH-ENG 3(3,0) Community Literacy Practicum: PR: Graduate status or senior standing or C.I. Designed to deepen theoretical understanding of literacy through participation in a community literacy project. Occasional.

ENG 3010 CAH-ENG 3(3,0) Practical Criticism: PR: ENC 1102. Student evaluation of selected fiction, poetry, and drama through practical exercises in literary criticism. Occasional.

ENG 3014 CAH-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. Fall, Spring.

ENG 3073 CAH-ENG 3(3,0) Cultural Studies Literature: PR: ENC 1102. The theoretical and cultural developments over time that call for broadening the applications of literary analysis to produce “cultural studies.” Occasional.

ENG 4114 CAH-ENG 3(3,0) Literature and Film: PR: ENC 1102 and ENG 3041. The differences in emphasis, medium, and technique in selected novels and their film adaptations. Occasional.

ENG 5009 CAH-ENG 3(3,0) Methods of Bibliography and Research: PR: Graduate status or senior standing or C.I. Bibliographical, library and systematic approaches to research at the graduate level in language and literature. Fall.

ENG 5018 CAH-ENG 3(3,0) Literary Criticism: PR: Graduate status or senior standing or C.I. Historical survey of major critics from classical antiquity to the modern era. Spring.

ENL 2012 CAH-ENG 3(3,0) English Literature I: PR: ENC 1102. Beowulf to 1798. Fall, Spring.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Department</th>
<th>Unit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL 2022</td>
<td>CAH-ENG</td>
<td>3(3,0)</td>
<td>English Literature II: PR: ENC 1102. From 1738 to 1914. Fall, Spring.</td>
</tr>
<tr>
<td>ENL 3951</td>
<td>CAH-ENG</td>
<td>3(3,0)</td>
<td>Orlando Shakespeare Festival: PR: ENL 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. Occasional.</td>
</tr>
<tr>
<td>ENL 3951H</td>
<td>CAH-ENG</td>
<td>3(3,0)</td>
<td>Orlando Shakespeare Festival Honors: PR: ENC 1102 and permission of Honors. Honors theory and practice of Shakespeare’s art by performance-oriented study and participation in the Orlando Shakespeare Festival’s pre-season activities and productions. Occasional.</td>
</tr>
<tr>
<td>ENL 4200</td>
<td>CAH-ENG</td>
<td>3(3,0)</td>
<td>English Renaissance Poetry and Prose: PR: ENC 1102 and ENG 3014. The course will examine selected poetry and prose of Wyatt, Surrey, Sidney, Spenser, Marlowe, Raleigh, Daniel, Shakespeare, Chapman, Lyly &amp; others. Occasional.</td>
</tr>
<tr>
<td>ENL 4230</td>
<td>CAH-ENG</td>
<td>3(3,0)</td>
<td>18th Century Studies: PR: ENC 1102 and ENG 3014. Reading, analysis, and discussion of literature in English: 1690-1880. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>ENL 4253</td>
<td>CAH-ENG</td>
<td>3(3,0)</td>
<td>The Victorian Age: Poetry: PR: ENC 1102 and ENG 3014. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, the Rossetti, and Emily Bronte. Occasional.</td>
</tr>
<tr>
<td>ENL 4311</td>
<td>CAH-ENG</td>
<td>3(3,0)</td>
<td>Chaucer: PR: ENC 1102 and ENG 3014. The Canterbury Tales, Troilus and Criseyde, and other works. Occasional.</td>
</tr>
<tr>
<td>ENL 4333</td>
<td>CAH-ENG</td>
<td>3(3,0)</td>
<td>Shakespeare Studies: PR: ENC 1102 and ENG 3014. Reading, analysis, and discussion of Shakespeare’s plays. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>ENL 4341</td>
<td>CAH-ENG</td>
<td>3(3,0)</td>
<td>Milton and His Age: PR: ENC 1102 and ENG 3014. Paradise Lost, Paradise Regained, Samson Agonistes, shorter poems and selected prose. Occasional.</td>
</tr>
<tr>
<td>ENL 5006</td>
<td>CAH-ENG</td>
<td>3(3,0)</td>
<td>British Literature: Medieval to Modern: PR: Graduate status or senior standing or C.I. Survey of British Literature from beginnings to present, with instruction in the fundamentals of prose, poetry and drama. Emphasis on Literature’s social and historical contexts. Occasional.</td>
</tr>
<tr>
<td>ENL 5237</td>
<td>CAH-ENG</td>
<td>3(3,0)</td>
<td>Eighteenth Century Studies: PR: Graduate status or senior standing or C.I. Reading, analysis, and discussion of literature in English:1680-1830. Occasional.</td>
</tr>
<tr>
<td>ENL 5250</td>
<td>CAH-ENG</td>
<td>3(3,0)</td>
<td>The Victorian Age: Poetry: PR: Graduate status or senior standing or C.I. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, Hardy, the Rossetti, Emily Bronte, and others. Occasional.</td>
</tr>
<tr>
<td>ENL 5256</td>
<td>CAH-ENG</td>
<td>3(3,0)</td>
<td>Victorian Literature: PR: Graduate status or senior standing or C.I. A study of the major prose works and selected poetry of British Victorian writers. Occasional.</td>
</tr>
<tr>
<td>ENL 5335</td>
<td>CAH-ENG</td>
<td>3(3,0)</td>
<td>Studies in Shakespeare: PR: Graduate status or senior standing or C.I. A selection of representative plays, with emphasis on Shakespeare’s development as an artist: aesthetics of dramatic literature. Occasional.</td>
</tr>
<tr>
<td>ENL 5347</td>
<td>CAH-ENG</td>
<td>3(3,0)</td>
<td>The Age of Milton: PR: Graduate status or senior standing or C.I. Emphasis on the non-dramatic works of John Milton. Selections from the non-dramatic works of other 17th-century figures. Occasional.</td>
</tr>
<tr>
<td>ENV 3001</td>
<td>ECS-CEE</td>
<td>3(3,0)</td>
<td>Introduction to Environmental Engineering: PR: CHM 2046 and MAC 2312. Introduction to concepts and terminology of environmental engineering. Stress material and energy balances. Covers air, water, and land pollution. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>ENV 4008C</td>
<td>ECS-CEE</td>
<td>3(2,2)</td>
<td>Environmental Engineering Capstone Design: PR: one of ENV 456C, ENV 4300C, ENV 4122C, or CWR 4812C. An interdisciplinary capstone design experience requiring problem definition, data collection, analysis of alternatives, economic evaluation of alternatives, and oral and written presentation of final design. Occasional.</td>
</tr>
<tr>
<td>ENV 4112C</td>
<td>ECS-CEE</td>
<td>3(2,2)</td>
<td>Air Pollution Measurements Lab: Measurement of gaseous flow, isokinetic sampling, and pollutant quantification. Emphasis is placed on EPA methods. Occasional. M&amp;S fee: $30.00</td>
</tr>
<tr>
<td>ENV 4120</td>
<td>ECS-CEE</td>
<td>3(3,0)</td>
<td>Air Pollution Control: PR: EGN 3343 and CWR 3201 and ENV 3001. Air resources engineering design, and operation of air pollution control systems. Fall.</td>
</tr>
<tr>
<td>ENV 4122C</td>
<td>ECS-CEE</td>
<td>3(2,2)</td>
<td>Air Pollution Control Design: PR: ENV 4120. Project course on design of air pollution control equipment and systems. Occasional.</td>
</tr>
<tr>
<td>ENV 4300C</td>
<td>ECS-CEE</td>
<td>3(2,2)</td>
<td>Solid Waste Facility Design: PR: ENV 4341. Project course on design of a municipal solid waste landfill. Occasional. M&amp;S fee: $15.00</td>
</tr>
<tr>
<td>ENV 4341</td>
<td>ECS-CEE</td>
<td>3(3,0)</td>
<td>Solid Waste Management: PR: ENV 3001 or C.I. Engineering design, planning, and analysis problems associated with storage, collection, processing, and disposal of solid and hazardous wastes. Fall.</td>
</tr>
<tr>
<td>ENV 4531</td>
<td>ECS-CEE</td>
<td>3(3,0)</td>
<td>Wastewater Treatment Processes: PR: ENV 3001 and CWR 3201. Detailed investigation of principles of design and operation of wastewater treatment facilities. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>ENV 4561</td>
<td>ECS-CEE</td>
<td>4(4,0)</td>
<td>Environmental Engineering - Process Design: PR: ENV 3001 and CWR 3201. Water treatment and wastewater treatment design considerations with effluent and sludge handling, treatment, and disposal. Fall, Spring.</td>
</tr>
<tr>
<td>ENV 4562C</td>
<td>ECS-CEE</td>
<td>3(2,2)</td>
<td>Environmental Engineering Systems Design: PR: ENV 4561, EES 4202C. Project course on design of water and wastewater treatment plants. Spring. M&amp;S fee: $15.00</td>
</tr>
<tr>
<td>ENV 4563</td>
<td>ECS-CEE</td>
<td>3(3,0)</td>
<td>Environmental Control Systems: PR: EGN 3343, EGN 3373 and CWR 3201. A study of the major control systems in environmental engineering applications including process dynamics, instrumentation, and control system configuration. Occasional.</td>
</tr>
<tr>
<td>ENV 5116C</td>
<td>ECS-CEE</td>
<td>3(2,3)</td>
<td>Air Pollution Monitoring: PR: C.I. Air Pollution sampling techniques, equipment, and monitor siting. Emphasis on theory and direct applications in air pollution monitoring. Occasional. M&amp;S fee: $15.00</td>
</tr>
<tr>
<td>ENV 5334</td>
<td>ECS-CEE</td>
<td>3(3,0)</td>
<td>Characterization of Hazardous Waste Sites: PR: CWR 4101C and ENV 4341 or C.I. Practical and comprehensive methods of hazardous waste site characterization to determine site properties, contamination type, magnitude and risk, and remedial actions. Occasional.</td>
</tr>
<tr>
<td>ENV 5335</td>
<td>ECS-CEE</td>
<td>3(3,0)</td>
<td>Hazardous Waste Management: PR: ENV 3001 or C.I. Engineering planning and analysis associated with the handling, storage, treatment, transportation, and disposal of hazardous wastes. Occasional.</td>
</tr>
<tr>
<td>ENV 5410</td>
<td>ECS-CEE</td>
<td>3(3,0)</td>
<td>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. Occasional.</td>
</tr>
<tr>
<td>EPH 5335</td>
<td>ED-CFCS</td>
<td>3(3,0)</td>
<td>Physical and Sociological Implications of Handicapping Conditions: Overview of physical and sociological factors which may contribute to delayed learning or physical impairments in the exceptional populations. Physical interventions and first-aid practices are examined. Occasional.</td>
</tr>
</tbody>
</table>
ESE 4943  ED-TLP  7-12(0,35)  

ESE 5214  ED-TLP  3(3,0)  

ESE 4221  ECS-IEMS  3(3,0)  

ESE 4324  ECS-IEMS  3(3,0)  
Quality Engineering: PR: STA 3032. Basic concepts and techniques of quality control; applications of statistics in industrial research; design of quality assurance systems; reliability engineering. Fall.

ESE 4312  ECS-IEMS  3(3,0)  
Operations Research: PR: STA 3032. Introduction to linear, non-linear, and dynamic programming. Decision analysis, random processes, and queuing. Course covers theory through application and implementation of results. Fall.

ESE 4321  ECS-IEMS  3(3,0)  
Quantitative Techniques in Industrial Engineering: PR: ESI 4312. Extension of ESI 4321, with primary emphasis on Operations Research and statistical applications to industrial engineering problems. Even Fall.

ESE 4523C  ECS-IEMS  3(3,0)  
Systems Simulation: PR: STA 3032, EGN 3211 or high level programming language. Methods and procedures for simulating large-scale systems with digital computers. High level programming and simulation languages are used. Spring. M&S fee: $20.00

ESE 4628C  ECS-IEMS  3(2,3)  
Industrial Engineering Applications of Computers: PR: EGN 3211 or high level programming language. Survey of microcomputer methods in industrial engineering practice. Topics include: spreadsheets, databases, expert systems, and project management. Lab exercises. Fall. M&S fee: $20.00

ESE 5219  ECS-IEMS  3(3,0)  
Engineering Statistics: PR: C.I. Discrete and continuous probability distributions, hypothesis testing, regression, non-parametric stats and ANOVA. Fall. Spring.

ESE 5227  ECS-IEMS  3(3,0)  
Total Quality Improvement: PR: STA 3032 or equivalent. Quality improvement (QI) tools and techniques, advanced QI techniques, quality improvement systems, total quality management concepts and implementation, planning and management tools, and case studies. Fall.

ESE 5236  ECS-IEMS  3(3,0)  
Reliability Engineering: PR: ESI 4234 or equivalent, or C.I. Reliability theory and modeling approaches. Topics include: failure data analysis, maintainability, reliability standards (DOE), software reliability, reliability in design, and electronic systems reliability. Fall.

ESE 5306  ECS-IEMS  3(3,0)  
Operations Research: PR: STA 3032. Methods of operations research, including formulation for models and derivation of solutions; linear programming, network models, queuing theory, simulation, and nonlinear optimization techniques. Fall, Spring.

ESE 5359  ECS-IEMS  3(3,0)  
Risk Assessment and Management: PR: ESI 5219 or STA 3032. Problems and complexities involved in risk assessment and management. Selected methodologies are illustrated through realistic applications in engineering and the sciences. Odd Spring.

ESE 5419C  ECS-IEMS  3(2,2)  
Engineering Applications of Linear and Nonlinear Optimization: PR: ESI 4312 or ESI 5306. Course covers linear and nonlinear optimization applications in production planning, staffing, engineering design, distribution networks, and other engineering areas. Focuses on practicing OR analysts. Even Spring. M&S fee: $45.00

ESE 5531  ECS-IEMS  3(3,0)  
Discrete Systems Simulation: PR: STA 3032. Methods for performing discrete systems simulation, including network modeling, will be treated. Spring.

EST 3211  ECS-ENT  3(3,0)  
Wave Photonics: PR: EST 3222, and EET majors. Wave properties of light, interaction with different media, and photonic technologies and systems based on wave nature of light. Spring.

EST 3213  ECS-ENT  3(3,0)  
Photonics Simulation: PR: EST 3222. The behavior of light in standard optical systems consisting of both refractive and reflective light. Begin with general optic principles and end with system design. Not open to Physics majors or minors. Fall.

EST 3222  ECS-ENT  3(3,0)  
Photonics Technology: PR: PHY 2053C, PHY 2054C, MAP 3401, MAC 2312, and MAC 2253 or MAC 2311. Course will introduce engineering technology students to the field of photonics. Light properties, optics, lasers, systems. Fall.

EST 3543C  ECS-ENT  3(2,2)  
Programmable Logic Applications and Device Integration: PR: MAC 1105, EET 3085C, or equivalent. Builds on knowledge of logic fundamentals programming technologies, integrated circuits, and number systems to operate and test systems using programmable logic protocol. Fall, Spring.

EST 4227  ECS-ENT  3(3,0)  
Photonic Sensors and Devices: PR: EST 3212, EST 3211. How light is converted to electrons to incorporate an electronic system. Standard means of detecting light such as photodiodes and charge-coupled devices will be covered. Spring.

EST 4236  ECS-ENT  3(3,0)  

EST 4256  ECS-ENT  3(3,0)  
Photonic Communications: PR: EST 4227, EST 4236. The use of light as media for transmission of information. Modulation techniques, light transmission through different mediums, and detection and demodulation. Spring.

EST 4502C  ECS-ENT  4(3,2)  
Metrology and Instrumentation: PR: ETG 3541, EET 3085C or equivalent. An introduction to the basic concepts and terminology of metrology and instrumentation. Theory, courses and techniques essential to industrial measurement and laboratory practice are covered. Spring. M&S fee: $10.00

ETC 4206  ECS-ENT  3(3,0)  
Construction Estimating: PR: MAC 1114, & EGN 111C or equivalent & ETC 4241C. Techniques of making estimates and computations of materials, labor, equipment, overhead costs and profits. Software packages are utilized. Spring.

ETC 4241C  ECS-ENT  3(2,2)  
Construction Materials and Methods: CR: ETG 3541. Construction principles, details, materials and methods used as related to the construction of buildings. Fall.

ETC 4242  ECS-ENT  3(3,0)  
Construction Contracts and Specifications: The role of construction contracts, architectural specifications, product specifications, industry standards and building codes in the process of building construction. Spring.

ETC 4243  ECS-ENT  4(4,0)  

ETC 4414C  ECS-ENT  3(2,2)  

ETC 4415C  ECS-ENT  3(2,2)  

ETD 3350C  ECS-ENT  3(2,2)  
Applied CADD: PR: Engineering Drawing and some CADD background. This course in computer-aided drafting design provides the student with the opportunity to approach detailed and intricate drafting/design problems from a computer perspective. Fall.

ETG 3533C  ECS-ENT  4(3,2)  
Applied Engineering Strength of Materials: PR: MAC 1105, MAC 114, ETG 3541, PHY 2053C, junior standing; CR: MAC 2253 or MAC 2311. Relationship between external forces and action of members of a structure. Topics include stress, shear, moment, deflections, columns, connections, and Mohr's circle. May be repeated for credit. Spring. M&S fee: $15.00

ETG 3541  ECS-ENT  3(3,0)  
ETI 4950C ECS-ENT 3(1,4)
Senior Design Project: PR: Senior Standing. Engineering Technology major and must be within 18 hour of graduation. Supervised individual or group projects involving project definition, planning, development, testing, and evaluation. Fall, Spring.

ETI 3116 ECS-ENT 3(3,0)

ETI 3418C ECS-ENT 3(2,2)
Computer Numerical Controls - Machining Applications: PR: ETI 3350. Theory of methods and concepts for machining, computer numerical control programs, types of operations, cutting tools, machine tools, and electrical discharge machines. May be repeated for credit. Occasional.

ETI 3421 ECS-ENT 3(3,0)
Materials and Processes: PR: MAC 1105 or MAC 1114 or equivalent; Chemistry. A study of fundamental properties of materials. Current industrial practices in founding, forming, joining and shaping processes. Fall.

ETI 3651C ECS-ENT 3(2,2)
Computer Applications: PR: MAC 1105, and Junior standing. Standard engineering software packages found in most companies, institutions, and organizations to solve engineering problems. Fall.

ETI 3671 ECS-ENT 3(3,0)

ETI 3690 ECS-ENT 3(3,0)
Technical Sales: PR: Junior standing or C.I. Introduction to technical knowledge to sales and service. Relationship of technical sales organization to production, customers, and competitors. Even Spring.

ETI 4150 ECS-ENT 3(3,0)
Spacecraft Quality Assurance And Testing: PR: PHY 2053C. Quality assurance, reliability, and testing of space hardware and software, with the examination of designing, manufacturing, testing, and operation. Occasional.

ETI 4186 ECS-ENT 3(3,0)
Applied Reliability: PR: ETI 3116. Practical application of reliability concepts and analysis applicable to the design, production and logistic phases of systems and system components. Odd Spring.

ETI 4205 ECS-ENT 3(3,0)
Applied Logistics: PR: ETI 3116 or C.I. Introduction to logistics. Emphasis on practical applications. Includes systems engineering, cost/sytems effectiveness, reliability, maintainability, system functional analysis, logistic support analysis, life cycle cost analysis. Fall.

ETI 4381 ECS-ENT 3(3,0)
Ground System Design: PR: PHY 2053C. Fundamentals of ground system design and operation, its architecture and technology. Cost and performance trade offs in the spacecraft-to-ground communications link and ground system design. Occasional.

ETI 4382C ECS-ENT 3(1,4)
Launch Processing Technology: PR: or CR: ETI 4150 or CR. Processes and methods in the preparation, integration, and launch of a space payload and launch vehicle. Includes hands-on launch processing activities in a laboratory environment. Occasional.

ETI 4448 ECS-ENT 3(3,0)
Applied Project Management: PR: Junior Standing. Statement of work, activity decisions, timelines, scheduling, and resource allocation methods. Techniques will be appropriate for large and small projects within commercial, academic, or non-profit organizations. Spring.

ETI 4480C ECS-ENT 3(2,2)

ETI 4635 ECS-ENT 3(3,0)
Technical Administration: PR: Junior Standing. Techniques of applying management principles to professional positions held by Engineering Technologists. Management functions of planning, organizing, motivating, and controlling, production, sales, and service. Fall, Spring.

ETI 4640 ECS-ENT 3(3,0)
Operations Management for Technologists: PR: ETI 4635. Scheduling techniques (PERT), (CPM), are presented. Time Study Methods, Work Sampling and MTM are covered. Fall.

ETI 4661C ECS-ENT 3(2,2)
Applied Facilities Planning and Design: PR: ETI 3421, engineering drawing and senior standing. The design of manufacturing facilities and material handling systems. Occasional.

ETI 4700 ECS-ENT 3(3,0)

ETI 4835 ECS-ENT 3(3,0)
Rocket Propulsion Technology: PR: PHY 2053C, Calculus I, II, CAD. Principles of rocketry; solid, liquid and hybrid rocket stages; specific impulse computations; fuel and thrust computations; nose cone, and nozzle designs; ignition mechanisms. Fall.

ETI 4836 ECS-ENT 3(3,0)
Space Systems Technology: PR: PHY 2053C. Applied space technology, design of space systems, space environment, flight dynamics, atmospheric drag, power supply, communications technology. May be repeated for credit. Fall.

ETI 4837C ECS-ENT 3(2,2)
Technology of Small Space Payloads: PR: ETI 4836 and high level programming lang. Principles of technology in the design of small rocket and microsatellite payloads; power requirements; telemetry requirements of data transmission; thermal control, shock and vibration tests. Fall. M&S fee: $3460.

ETI 4838 ECS-ENT 3(3,0)
Flight Dynamics Technology: PR: PHY 2053C, Calculus I, II, CAD. Orbital trajectory design; analysis of vehicle sustained g-forces; vehicle vibration analysis; orbital maneuvering; atmospheric re-entry; launch windows; rocket apogee and down range computations; wind corrections and launch angles. Spring.

ETI 4839 ECS-ENT 3(3,0)

ETM 4220 ECS-ENT 4(4,0)
Manufacturing of Photonics: PR: EST 3222. Manufacturing processes and practices of photonic devices and systems. Tolerance studies, manufacturing lines, tests, measurements, and other topics related to low and high volume photonics manufacturing. Fall.

ETM 4225 ECS-ENT 3(3,0)
Applied Heat Transfer: PR: ETG 3541 or equivalent, MAC 2233 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. Spring.

ETM 4331C ECS-ENT 4(3,2)
Applied Fluid Mechanics: PR: MAC 2253 or MAC 2311; PHY 2053C or equivalent. An introduction to the basic concepts of hydrostatics and hydrodynamics covering fluid statics, flow of ideal fluids, continuity of mass, impulse and momentum principles, conservation of energy, flow of fluid in pipes, etc. Occasional.

ETM 4403C ECS-ENT 3(2,2)

ETM 4512C ECS-ENT 3(2,2)

ETM 4755 ECS-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. Occasional.

EUH 2000 CAH-HIST 3(3,0)
Western Civilization I: A survey of western civilization from ancient to 1648. Fall, Spring.

EUH 2000H CAH-HIST 3(3,0)

EUH 2001 CAH-HIST 3(3,0)
Western Civilization II: A survey of western civilization from 1648 to present. May be taken before EUH 2000. Fall, Spring.

EUH 2001H CAH-HIST 3(3,0)

EUH 3122 CAH-HIST 3(3,0)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUH 3142</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. <em>Influence of Renaissance humanism on arts, letters, and politics; Luther and Protestantism; the Catholic Counter-Reformation and the Thirty Years' War. Occasional.</em></td>
</tr>
<tr>
<td>EUH 3235</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. <em>Napoleon and nationalism; new ideas; conservation; liberal, romanticism, republicanism and socialism; urbanization, technology and mass culture, religious decline; Realpolitik, racism, imperialism, and militarism. Occasional.</em></td>
</tr>
<tr>
<td>EUH 3242</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. <em>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. Occasional.</em></td>
</tr>
<tr>
<td>EUH 3281</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. <em>Origins of World War II; Hitler's &quot;New Order,&quot; and resistance movements; Cold War; de-Stalinization of Russia; Sovietization of East Central Europe; Western reconstruction, and prosperity. Occasional.</em></td>
</tr>
<tr>
<td>EUH 3315</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. <em>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. Occasional.</em></td>
</tr>
<tr>
<td>EUH 3431H</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2001 and consent of Honors. The history of modern Italy from the origins of national unification through the post-World War II era. Occasional.*</td>
</tr>
<tr>
<td>EUH 3441</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2001 or C.I. <em>History of Modern Italy: The history of modern Italy from the origins of national unification through the post-World War II era, with honors content. Occasional.</em></td>
</tr>
<tr>
<td>EUH 3451</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. <em>The course traces the evolution of France through the study of French political thought, institutional development, social movements, and international roles from 1700 - present. Occasional.</em></td>
</tr>
<tr>
<td>EUH 3531</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. <em>Irishland's historical and cultural development from 1129 to 1607. Occasional.</em></td>
</tr>
<tr>
<td>EUH 3651</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. <em>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. Occasional.</em></td>
</tr>
<tr>
<td>EUH 4284</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. <em>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. Occasional.</em></td>
</tr>
<tr>
<td>EUH 4400</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or WOH 2012, WOH 2022. Systems of government in the various city-states of the ancient Greek world from the Bronze Age through the Hellenistic era (c. 1200BCE-300CE). Occasional.*</td>
</tr>
<tr>
<td>EUH 4465</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. <em>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; World War II, division and recovery. Occasional.</em></td>
</tr>
<tr>
<td>EUH 4501</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. *British History: 1815-Present: PR: EUH 2000 and 2001 or C.I. <em>Occasional.</em></td>
</tr>
<tr>
<td>EUH 4502</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. <em>Occasional.</em></td>
</tr>
<tr>
<td>EUH 4571</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. *History of Russia to 1801: PR: EUH 2000 and 2001 or C.I. <em>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. Occasional.</em></td>
</tr>
<tr>
<td>EUH 4574</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. *History of Russia: 1801-1917: PR: EUH 2000 and 2001 or C.I. <em>Alexander I; Napoleon Invasion, Revolutionary Movement; Russian Policy toward Central Asia and China; Great Reforms; Russo-Japanese War; Revolution of 1905; Constitutional Period; Triple Entente. Occasional.</em></td>
</tr>
<tr>
<td>EUH 4582</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. *20th Century Russian Diplomatic History: PR: C.I. <em>Russian diplomatic history from the signing of the Entente Cordiale to the afternoon of the Cold War. Occasional.</em></td>
</tr>
<tr>
<td>EUH 4610</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. *Women in European Society: From Medieval to Modern: PR: Junior standing or C.I. <em>This course examines the changing situation of women in Europe from the Middle Ages to the twentieth century. Occasional.</em></td>
</tr>
<tr>
<td>EUH 4620</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or C.I. <em>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. Occasional.</em></td>
</tr>
<tr>
<td>EUH 4674</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: EUH 2000 and 2001 or WOH 2012, WOH 2022. A comparison of the original form of the Olympic Games (and ancient notions of sport) to their modern counterparts. Occasional.*</td>
</tr>
<tr>
<td>EUH 5285</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: Graduate status or senior standing or C.I. <em>Reading and class discussion of the literature on selected topics in European history since WW II. Occasional.</em></td>
</tr>
<tr>
<td>EUH 5371</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: Graduate status or senior standing or C.I. <em>Reading and class discussion of the literature on selected topics in Spanish history. Occasional.</em></td>
</tr>
<tr>
<td>EUH 5415</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: Graduate standing or C.I. <em>Current trends in historical literature in Christianity from its development as a distinct religion to its relations with and eventual &quot;triumph&quot; within the Roman Empire. Occasional.</em></td>
</tr>
<tr>
<td>EUH 5546</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: Graduate status or senior standing or C.I. <em>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. Occasional.</em></td>
</tr>
<tr>
<td>EUH 5579</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: Graduate status or senior standing or C.I. <em>Reading and class discussion of the literature on selected topics in Russian history, 1911-pres. Occasional.</em></td>
</tr>
<tr>
<td>EUH 5595</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: Graduate status or senior standing or C.I. <em>Selected topics in the literature of Russia under the Czars prior to 1917. Occasional.</em></td>
</tr>
<tr>
<td>EUH 5608</td>
<td>CAH-HIST</td>
<td>3(3,0)</td>
<td>PR: Graduate status or senior standing or C.I. <em>Colloquium on selected topics in European intellectual history. Occasional.</em></td>
</tr>
<tr>
<td>EUH 5930</td>
<td>COS-BIOL</td>
<td>1(1,0)</td>
<td>PR: Graduate status or senior standing or C.I. <em>Reading and class discussion of the literature on selected topics in European intellectual history. Occasional.</em></td>
</tr>
<tr>
<td>EVR 3062</td>
<td>ED-TLP</td>
<td>3(3,0)</td>
<td>PR: EVT 3371 or C.I. <em>Professional Role of the Vocational Teacher.</em></td>
</tr>
<tr>
<td>EVR 3312</td>
<td>ED-TLP</td>
<td>3(3,0)</td>
<td>PR: EVT 3371 or C.I. <em>Course Construction in Health Occupations Education.</em></td>
</tr>
<tr>
<td>EVT 3365</td>
<td>ED-TLP</td>
<td>3(3,0)</td>
<td>PR: EVT 3365 or C.I. <em>General Methods/Testing Evaluation in Vocational Education.</em></td>
</tr>
<tr>
<td>EVT 3367</td>
<td>ED-TLP</td>
<td>3(3,0)</td>
<td>PR: EVT 3371 or C.I. <em>Evaluation of Vocational Instruction.</em></td>
</tr>
<tr>
<td>EVT 3371</td>
<td>ED-TLP</td>
<td>3(3,0)</td>
<td>PR: EVT 3365 or C.I. <em>Course Construction in Industrial Education.</em></td>
</tr>
</tbody>
</table>
EVT 3502 ED-TLP 3(3,0)
Special Needs of Vocational Students: PR: EVT 3365 or C.I. Achievement of teacher competency in meeting the special needs of the handicapped, culturally different, slower learner, those with basic skill deficiencies, and those in non-traditional programs. Spring.

EVT 4065 ED-TLP 4(4,0)

EVT 4169 ED-TLP 3(3,0)
Curriculum Development Techniques for Industry Training: The practical application of fundamental knowledge, important skills, alternative analysis methods, and the critical elements of the trainers analyze tasks. Spring.

EVT 4368 ED-TLP 3(3,0)
Advanced Teaching Techniques for Vocational Education: PR: EVT 3365 or C.I. Study, practice, and achievement of techniques including cooperative learning, simulation, instructional modeling and evaluation of instructional effectiveness. Fall.

EVT 4815 ED-TLP 3(3,0)

EVT 5260 ED-TLP 2(4-2,4)
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. Occasional.

EVT 5561 ED-TLP 2(3-2,3) 0
Student Guidance in the Vocational Program: PR: Basic Teacher Certificate or C.I. Achievement of skills used by teachers as they gather student data, confer with students, and help students plan for employment or further education. Occasional.

EVT 5817 ED-TLP 2(4-2,4)
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. Occasional.

EXP 3204C COS-PSYCH 4(3,2)
Perception: PR: PSY 2012, PSY 3212C. Consideration of physical and psychological variables in perceptual phenomena. Lecture/Lab. Fall.

EXP 3250 COS-PSYCH 3(3,0)

EXP 3304 COS-PSYCH 3(3,0)

EXP 3404 COS-PSYCH 3(3,0)

EXP 3604C COS-PSYCH 3(3,0)

EXP 4507C COS-PSYCH 3(1,4)
Advanced Human Memory and Cognition: PR: PSY 3213C, EXP 3604C. In-depth coverage of experimental research on human memory and cognition. Occasional. M&S fee: $15.00

EXP 5208 COS-PSYCH 3(3,0)
Sensation and Perception: PR: Graduate status or senior standing or C.I. A study involving human information processing with regard to physical and psychological variables in sensory and perceptual phenomena. Odd Spring.

EXP 5254 COS-PSYCH 3(3,0)
Human Factors and Aging: PR: Graduate status, post-bac, or senior standing or C.I. An overview of issues related to enhancing quality of life of elderly through the implementation of basic human factors principles in environmental and task design. Even Fall.

FIL 1001 CAH-FILM 3(3,0)
Cinema Survey: Introductory course that focuses on different approaches to studying cinema. Fall, Spring.

FIL 1001H CAH-FILM 3(3,0)
Honors Cinema Survey: PR: Permission of Honors. Introductory course that focuses on different approaches to studying cinema. Honors-level content. Fall, Spring.

FIL 1007 CAH-FILM 3(3,0)
Foundations of Story: Analysis of dramatic and cinematic narrative structures, both plot and character, from an historical and cultural perspective. Fall, Spring.

FIL 1008 CAH-FILM 3(3,0)
Cinematic Expression/Aesthetics: Analysis and practice of aesthetic principles essential in filmmaking, including composition, moving graphics, image design, lighting styles. Fall, Spring. M&S fee: $13.00

FIL 1009 CAH-FILM 3(3,0)
Cinematic Expression for Majors: PR: FIL 1007 or FIL 1100. Analysis and practice of aesthetic principles essential in filmmaking, including composition, moving graphics, image design, and lighting styles. Spring.

FIL 1100 CAH-FILM 3(3,0)
Foundations of Story for Majors: PR: Pending Film majors or Film minors. Analysis of dramatic and cinematic narrative structures, both plot and character, from a historical and cultural perspective. Occasional.

FIL 1226 CAH-FILM 3(3,0)
Film Production Tools: Basic tools of filmmaking, including digital video cameras, 16 mm cameras, basic lighting equipment, non-linear editing equipment, sound recording and mixing, laboratory processing, and digital post-production. Occasional.

FIL 2107 CAH-FILM 3(3,0)
Script Analysis: CR: ENC 1101, FIL 1007. Introduction to dramatic and visual storytelling techniques used in both traditional and non-traditional filmmaking and screenwriting. Fall, Spring.

FIL 2220 CAH-FILM 3(3,0)
Cinematography I: PR: Film majors, FIL 2274C, FIL 2220. Concepts and tools of cinematography and lighting. Fall. M&S fee: $45.00

FIL 2220 CAH-FILM 3(3,0)
Cinematography II: PR: Film Major, FIL 1008, FIL 3124, FIL 3201C. Introduction to processes and techniques of directing. Spring.

FIL 2221 CAH-FILM 3(3,0)
Acting for Film I: PR: BFA Film majors. Acting through use of various acting techniques, developing an ability to direct and work with actors effectively. Fall.

FIL 2224C CAH-FILM 3(3,0)
Foundations of Production: Production techniques for non-majors. Introduction to basic techniques used in filmmaking. Students must supply their own video equipment and editing equipment. Any format is acceptable. Fall, Spring.

FIL 2274C CAH-FILM 3(3,2)
Editing I: PR: Film Major, FIL 1008, FIL 3124, FIL 3201C. Basic editing concepts and techniques, using non-linear editing systems. Spring. M&S fee: $45.00

FIL 2400 CAH-FILM 3(2,2)
History of Motion Pictures: The history of motion pictures as art and industry; from 1895 to the present. Fall, Spring. M&S fee: $25.00

FIL 2532 CAH-FILM 3(3,0)
The American Film Artist: The evolution and growth of a film artist, the emergence of a unique personal vision, and its influence on society. May be repeated for credit when content differs. Fall. M&S fee: $10.00

FIL 3006 CAH-FILM 3(3,0)
Art of the Cinema: An analysis of basic elements of cinematic style including film direction, editing, cinematography, art direction and sound. Fall, Spring. M&S fee: $25.00

FIL 3102 CAH-FILM 3(3,0)
Writing for Film and TV: PR: ENG 1102, Junior Standing. Theories and process of screen writing for motion pictures and television. Students learn how to create stories and scripts for the entertainment marketplace. Fall, Spring.

FIL 3106C CAH-FILM 3(2,3)
Introduction to Scriptwriting: PR: Film majors only. Rudiments of scriptwriting, including visual storytelling, story structure, character, dialogue, and introduction to scriptwriting software. Occasional.

FIL 3124 CAH-FILM 3(3,0)

FIL 3125 CAH-FILM 3(3,0)
FIL 3201C CAH-FILM 3(2,4) Introduction to Film Production: PR: Film majors, FIL 2107. Introduction to production utilizing film equipment. Basic technical and aesthetic aspects of production. Fall. M&S fee: $45.00

FIL 3225 CAH-FILM 3(3,0) Acting for Film I: PR: BFA Film majors, FIL 2221 or C.I. Characterization and scene study as it applies to working in front of the camera. Spring.

FIL 3229 CAH-FILM 3(0,3) Film Production Technology Workshop: PR: Restricted to Film majors. Demonstrations and hands-on equipment workshops to understand and operate the tools of the filmmaking process. May be repeated for credit. Occasional.

FIL 3236C CAH-FILM 3(3,6) Advanced Documentary Production: PR: FIL 3300C. Processes and principles of advanced documentary production to capture on-going reality based situations. Occasional. M&S fee: $14.00

FIL 3252C CAH-FILM 3(3,1) Cinematic Expression: PR: FIL 2400. Cinematography using video format; study of fundamentals of motion-picture communication, film structure and storytelling. Spring.

FIL 3269 CAH-FILM 3(3,0) Cinema Directors: PR: FIL 3500C and Film or Cinema Study major. Intensive study of the work of selected filmmakers using multiple modes of criticism and author analysis to examine films. Occasional.

FIL 3286C CAH-ART 3(2,4) Introduction to Animation: PR: Animation majors only, and a satisfactory portfolio review or C.I. Focus on 3D computer modeling and animation systems. Hands-on exercise on the production of high-end animation systems used in the film industry. May be repeated for credit. Even Fall. Spring. M&S fee: $35.00

FIL 3287C CAH-ART 3(2,4) Intermediate Animation: PR: Animation majors only, FIL 3286C, and a satisfactory portfolio review or C.I. Focus on 3D computer modeling and animation systems. Hands-on exercise on the production of high-end animation systems used in the film industry. May be repeated for credit. Even Fall. Spring. M&S fee: $35.00

FIL 3297 CAH-FILM 3(3,0) Sound Design I: PR: Film or Digital Media major. Technical aspects of production and post-production sound recording, editing, and mixing. Fall. Spring.

FIL 3300C CAH-FILM 3(3,1) Film Documentary: PR: Film or Cinema Studies major. FIL 3201C or FIL 3229. The uses and analysis of the non-fiction film. Fall. M&S fee: $15.00

FIL 3304C CAH-FILM 3(1,3) Documentary Vision: PR: Film major and FIL 3201C. Styles and approaches to documentary filmmaking, with emphasis on making short, personal films. Spring.

FIL 3307 CAH-FILM 3(3,0) Docudrama: PR: FIL 2220. Techniques to dramatize real-life events and persons, with emphasis on representation, adaptation, and ethics. Occasional.

FIL 3309 CAH-FILM 3(3,1) Women in Film: PR: Junior standing. A critical examination of how cinematic images of women affect cultural perceptions and an overview of historically significant women filmmakers and related sociopolitical issues. Fall. Spring.

FIL 3401 CAH-FILM 3(3,0) Film History I: PR: Film majors and FIL 2107. Examines film history in a depth of detail and with rigor that is appropriate for majors in the subject. This course covers cinema history from 1895 to 1945. Fall.

FIL 3402 CAH-FILM 3(3,0) Film History II: PR: Film majors and FIL 3401. Film history in a depth of detail and with rigor that is appropriate for majors in the subject. This course covers from 1946 to the present. Spring.

FIL 3410 CAH-FILM 3(3,0) History of Animated Films I: PR: Cinema Studies, Art, Animation or Digital Media major. Evolution of animation from its roots in Art, Theatre, and Novelty Inventions to its rise as a cinematic force of popular storytelling. Even Fall.


FIL 3418 CAH-FILM 3(3,0) Avant-Garde Cinema: PR: Junior standing or C.I. History and aesthetics of Avant-Garde Cinema with an emphasis on post WWII North American films and filmmakers. Spring. M&S fee: $10.00

FIL 3503C CAH-FILM 3(3,1) Film Theory and Criticism I: PR: FIL 2107 and Film or Cinema Studies major. Major film theories to the Second World War Period. Fall. M&S fee: $10.00

FIL 3504C CAH-FILM 3(3,1) Film Theory and Criticism II: PR: FIL 3503C and Film or Cinema Studies major. Major film theories of Second World War period to present. Spring. M&S fee: $10.00

FIL 3510 CAH-FILM 3(3,0) World Cinema Traditions: PR: Cinema Studies or Film major, FIL 3504C. The relationship among film, history, and culture in selected Asian, African, Latin American, and Middle Eastern countries. Fall. Spring.


FIL 3512 CAH-FILM 3(3,0) Italian Neo-Realist Cinema: PR: FIL 2400. Post-World War II period of the Italian cinema, with emphasis on the work of Antonioni, Visconti, Pasolini, Fellini, and Rossellini. Even Fall. Spring.

FIL 3513 CAH-FILM 3(3,0) Latin American Cinema: PR: FIL 3503C and FIL 3504C. Latin American films and film movements, historical and contemporary issues, social, and aesthetic concerns. Spring.

FIL 3514 CAH-FILM 3(3,0) International Cinema: PR: FIL 2400. Post-World War II period of the international cinema, with emphasis on the cinemas of Europe and Asia. Occasional.

FIL 3520 CAH-LANG 3(3,0) Italian Film: This course attempts to stimulate and/or increase the interest of students in Italian cinema as an art form with the director playing the key role. Films by most outstanding Italian movie directors will be analyzed from a social, economic, and historical point of view. Occasional.

FIL 3521 CAH-LANG 3(3,0) French Film: The study of French cinema as an art form and the key role of the director. Films are analyzed from structural, social, economical, and historical perspectives with attention to their relationship with French literature. Taught in English. Occasional.

FIL 3522 CAH-LANG 3(3,0) German Film: PR: C.I. Exploration of the form and context of German film during different time periods in relation to other aspects of culture and to sociopolitical structures at the time. Occasional.


FIL 3542 CAH-FILM 3(3,0) Cinema Criticism Writing: PR: ENC 1102, FIL 2400, FIL 3401, FIL 3402 and FIL 3503C. Modes of cinema criticism. Occasional.

FIL 3551 CAH-FILM 3(3,0) American Cinema: PR: Film major. Lectures, films and forums designed to provide awareness of styles, images, and myths in cinema that influence or reflect our culture. Spring.

FIL 3625 CAH-DIG 3(3,0) Interactive Entertainment: PR: FIL 3201C or DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001; and Film or Digital Media major. Ways to apply diverse skills of film making to digital media, non-linear story telling, virtual reality, video games and non-traditional education and military simulation. Fall. Spring.

FIL 3922 CAH-FILM 1(1,1) Film Colloquium: PR: Film majors only. A series of lectures, films and forums designed for students in the film program. The class is team taught by film faculty and guest speakers from the film industry. Course may be repeated. Graded S/U. Fall. Spring.

FIL 4103 CAH-FILM 3(3,0) Adaptation: PR: FIL 2107. The process of adapting scripts from other sources. The investigation of the legalities of adaptation, analysis of existing models, and written adaptations. Occasional.

FIL 4111C CAH-FILM 3(2,3) Feature/TV Writing I: PR: Film major and FIL 3124. Writing workshop, examination of mythic storytelling, and ethics of scriptwriting. Fall.

FIL 4112C CAH-FILM 3(2,3) Feature/TV Writing II: PR: Film major, FIL 4111C. Advanced writing workshops, principles and methods of adaptation and reader's coverage. Spring.

FIL 4113C CAH-FILM 3(2,3) Interactive Writing I: PR: Junior Standing, Film major. FIL 3124 or Digital Media major. Writing workshop for experienced scriptwriters, cold readings, preparing calling card script, marketing scripts and funding sources. Occasional.

FIL 4114C CAH-FILM 3(2,3) Interactive Writing II: PR: Film major and FIL 4113C. Advanced writing and development of short interactive narratives as well as examination of non-traditional structures as applied to interactive writing. Occasional.
FIL 4212C CAH-FILM 3(3,0) 
Sound Design II: PR: FIL 3297, Film or Digital Media major. To provide both professional skills and attitudes and to create an understanding of how production mixers bring the director's vision to the screen. Spring.

FIL 4213 CAH-FILM 3(3,0) 
Direction III: PR: Film major and FIL 2220. Principles and practice in directing narrative and/or documentary motion pictures. Fall. M&S fee: $45.00

FIL 4214 CAH-FILM 4(3,2) 
Special Problems in Film Design: A series of exercises in craft, techniques, and design for film production, including animation. Odd Spring. M&S fee: $20.00

FIL 4289C CAH-FILM 3(3,0) 
Film Production Management: PR: Film major. FIL 3201C. Production, budgeting, script breakdown, construction of production boards, scheduling, location scouting, and crew procurement. Spring.

FIL 4291C CAH-FILM 3(3,0) 
Animation Workshop: PR: Admission majors only, FIL 3286C, FIL 3287C, and a satisfactory portfolio review or C.I. Advanced 3D modeling and animation techniques. Working in small production teams, students will create short animated segments using a high-end 3D animation system. May be repeated for credit. Fall, Odd Spring. M&S fee: $35.00

FIL 4292C CAH-FILM 3(3,2) 
Editing II: PR: Film major and FIL 2774C. Theory, techniques and practices in picture editing. Fall. M&S fee: $45.00

FIL 4301C CAH-FILM 3(3,2) 
Advanced Animation: PR: Animation majors only, FIL 3286C, FIL 3287C, and a satisfactory portfolio review or C.I. Advanced 3D modeling and animation techniques. Working in small production teams, students will create short animated segments using a high-end 3D animation system. May be repeated for credit. Fall, Odd Spring. M&S fee: $35.00

FIL 4302C CAH-FILM 3(3,3) 
Documentary Workshop II: PR: FIL 4301C. Advanced documentary projects for community groups, heritage organizations, non-profit agencies using film, video and digital media. Fall.

FIL 4306C CAH-FILM 3(2,2) 
Genre Writing: PR: Film major, FIL 3503C. Advanced screenwriting practice in selected genres, including comedy, humor, western, crime, etc. Occasional.

FIL 4411 CAH-FILM 3(3,0) 

FIL 4506C CAH-FILM 3(3,0) 

FIL 4574 CAH-FILM 3(3,0) 
Images and Text in Context: PR: FIL 2400 or C.I. Moving images, the still image, and text in their cultural contexts. Occasional.

FIL 4602 CAH-FILM 3(3,0) 
Film Business: PR: Film major, FIL 4207, FIL 4208C. This is a seminar course taught by a professional in the film industry who deals with issues relating to the organization and production of motion pictures. Spring.

FIL 4604 CAH-FILM 3(3,0) 
The Film Producer: PR: Film major or Cinema Studies major, and FIL 4286C. The role of the producer is examined in the context of theatrical film. Spring.

FIL 4607 CAH-FILM 3(3,0) 
Production Management: PR: Film major, FIL 3201C. Production, budgeting, script breakdown, construction of production boards, scheduling, location scouting, and crew procurement. Spring.

FIL 5165 CAH-FILM 3(3,0) 
Visual Storytelling: PR: Admission to Film and Digital Media master's program or C.I. Traditional forms of visual storytelling ranging from storyboarding to classic structural paradigms for feature film scripts. Fall.

FIL 5609 CAH-FILM 3(3,0) 
Film and Internet Business: PR: Graduate status or senior standing or C.I. Survey of the business of financing and distributing films. Explores various, including feature films, short films, television documents and the Internet. Fall.

FIL 5800 CAH-FILM 3(3,0) 
Research Methods in Film and Digital Media: PR: Admission to Film and Digital Media graduate program or C.I. Research methodology for the study and production of Film and New Media. Spring.

FIL 5810 CAH-DIG 3(3,0) 
Transmedia Story Creation: PR: Admission to Film and Digital Media master's program or C.I. Repurposing of traditional stories: creation of authentic environments and the emergence of new authoring scenarios. Fall.

FIL 5853 CAH-FILM 3(3,0) 
Cinematic Forms: PR: Graduate standing in Film and Digital Media or C.I. Evolution of cinematic form through the works of key directors and theorists. Spring.
FIN 4313  BA-FIN  3(3,0)  Management of Financial Institutions: PR: FIN 3303, 3403; open to majors or minors which require this course. Analysis of management policies of financial institutions, including asset/liability and capital management. The economics and regulatory influence on competition is considered. Occasional.

FIN 4324  BA-FIN  3(3,0)  Commercial Bank Management: PR: FIN 3303; open to majors or minors which require this course. Analysis of the intersection of commercial banking policies and an analysis of current approaches to managing specific bank products. Fall.

FIN 4424  BA-FIN  3(3,0)  Advanced Topics in Financial Management: PR: FIN 3414; open to majors or minors which require this course. Advanced study in financial management. Topics include capital budgeting, financial structure, and capital decisions. Case studies used extensively. Occasional.

FIN 4453  BA-FIN  3(3,0)  Financial Models: PR: FIN 3403, FIN 3414, and FIN 3504; open to majors or minors which require this course. Rigorous coverage of advanced portfolio management topics. Case studies used extensively. Occasional.

FIN 4514  BA-FIN  3(3,0)  Portfolio Analysis and Management: PR: FIN 3403, FIN 3303 and FIN 3504; open to majors or minors which require this course. Portfolio and capital market theory in the determination of national investment policies. Risk analysis, portfolio analysis, and evaluation techniques. Fall, Spring.

FIN 4521C  BA-FIN  4(3,1)  Applied Portfolio Management I: PR: Finance major, FIN 3403, FIN 3504, and C. J. For UCF Student Managed Portfolio program participants. Provides detailed, rigorous analysis of Equity portfolio management topics, including those models suitable for representation and solutions on computers. Fall, Spring.

FIN 4522C  BA-FIN  4(3,1)  Applied Portfolio Management II: PR: Finance major, FIN 4521C, and C. J. For UCF Student Managed Portfolio program participants. Rigorous coverage of advanced portfolio management topics, including uses of derivatives, tax issues, and style investing. Occasional.

FIN 4533  BA-FIN  3(3,0)  Financial Derivatives: PR: FIN 3403, FIN 3303 and FIN 3504; open to majors or minors which require this course. Options, futures, forwards, and other derivative contracts. Investments traded in these markets are examined. Pricing and hedging are considered. Fall, Spring.

FIN 4604  BA-FIN  3(3,0)  International Financial Management: PR: FIN 3403; open to majors or minors which require this course. Analysis of the foreign financial methods and investments, currency futures market, capital budgeting, cash management, examination of Eurocurrency market and international bond markets. Fall, Spring.

FIN 4730  BA-FIN  3(3,0)  Senior Financial Consulting I: PR: Finance major, FIN 3403, FIN 3303, CR: FIN 3414, FIN 4453. Project management in a collaborative, interdisciplinary team environment. Incorporates financial problem solving, design and consulting in projects for major corporations. Part 1 of a two course sequence. Students must register for both semesters. Occasional.
FRW 3440 CAH-LANG 3(3,0) Business French I: PR: Three semesters of French language. Introduces vocabulary and terminology in various French business activities, as well as standards, procedures, and practices of the French business world. Occasional.

FRW 3441 CAH-LANG 3(3,0) Business French II: PR: FRW 3440 or C.I. Introduction to French business language and practices. Occasional.

FRW 3760 CAH-LANG 3(3,0) Advanced French Oral Communication: PR: FRE 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. Spring.

FRW 3780 CAH-LANG 3(3,0) French Phonetics and Diction: French phonology, with emphasis on phonic groupings. Spring.

FRW 3954 CAH-LANG 6(6,0) Study Abroad in the Caribbean: PR: FRE 2201 or equivalent. Travel through Caribbean islands, studying the diversity within the Creole cultures. May be repeated for credit. Occasional.

FRW 4421 CAH-LANG 3(3,0) Advanced French Conversation: PR: FRW 3760. Advanced conversation on directed topics from various disciplines; literature, art, psychology, philosophy, music, business, and the sciences. Fall.

FRW 4422 CAH-LANG 3(3,0) Advanced French Composition: PR: FRE 3420. Readings and written imitations of modern literary styles in the form of themes, sketches, poems, and original stories. Spring.

FRW 4471 CAH-LANG 6 (6,0) Advanced French Cultural Studies Abroad: PR: FRE 2201 or equivalent, or C.I. Students will develop strong conversational skills at the third year level while studying French culture abroad. May be repeated for credit. Occasional.


FRW 4503 CAH-LANG 2(2,0) Quebecois Civilization: PR: 2 years of college level French or equivalent. An introduction to the main epochs and events in the history of the French civilization in North America with particular emphasis on Quebec. Occasional.

FRW 4782 CAH-LANG 2(2,0) Advanced French Phonetics and Diction: PR: 2 years of college level French or equivalent. Intensive exercises in French phonetics and diction with both prose and poetry with particular emphasis on difficulties for speakers of English. Occasional.

FRT 4552 CAH-LANG 3(3,0) Structural Analysis of Beckett’s Wett: PR: ENC 1102. An intensive study of textual criticism and explications and linguistic analysis of literature with the primary focus on the novel. Course will be taught in English. Occasional.

FRW 3100 CAH-LANG 3(3,0) Survey of French Literature I: PR: FRE 2201 or equivalent. Main literary currents and works from the Middle Ages through the 18th century. Fall.

FRW 3101 CAH-LANG 3(3,0) Survey of French Literature II: PR: FRE 2201 or equivalent. Main literary currents and works of the 19th and 20th centuries. Spring.

FRW 3370 CAH-LANG 3(3,0) Short Stories of 18th, 19th and 20th Centuries: PR: FRE 2201 or equivalent. Selected readings designed to increase reading speed and develop analytical abilities. Authors include: Voltaire, Maupassant, Flaubert, Camus, and others. Occasional.

FRW 3740 CAH-LANG 3(3,0) The French Literature of Canada: PR: FRE 2201 or equivalent. A survey of the French literature of Canada from the late 18th century to the present, with particular emphasis on the novel and short story. Occasional.

FRW 3752 CAH-LANG 3(3,0) French Caribbean Literature: PR: FRE 2201 or equivalent. Literature of the French speaking Caribbean from colonial times to the present, in French. Occasional.


FRW 3770 CAH-LANG 3(3,0) Francophone Literature: PR: FRE 2201. The literature of the Francophone world. Students will read, analyze and discuss literary works written in French. Even Spring.

FRW 4281 CAH-LANG 3(3,0) 20th Century French Novels: PR: FRW 3100 or FRW 3101 or equivalent. Contemporary French Novel. Will focus on post-war authors, both traditional and avant-garde, such as Bazin, Beckett, Butler, Camus, Mauriac, Malraux and Sarrate. Occasional.

FRW 4324 CAH-LANG 3(3,0) 20th Century French Drama: PR: FRW 3100 or FRW 3101 or equivalent, or C.I. Concentration on traditional and avant-garde theater after WWII, such as the works of Beckett, Camus, Claudel, Caireux, Ionesco, and Sarte; different literary approaches will also be used. Occasional.

FRW 4440 CAH-LANG 3(3,0) French Literature of the Eighteenth Century: PR: FRW 3100. The philosophical movement: Montesquieu, Voltaire, Diderot, Buffon. Odd Fall.


FRW 4820 CAH-LANG 3(3,0) Stylistics: PR: FRE 3420 or equivalent. An intensive study of textual criticism. An examination of the relationship between language and literature; explications and linguistic analysis of literary texts. Occasional.

FSS 2221C RCHM-HOS 3(3,1) Quantity Food Preparation: Basic principles of food and beverage preparation, service, and menu development. Fall, Spring. M&S fee: $45.00

FSS 3008 RCHM-HOS 3(3,0) Culture and Cuisine: PR: FSS 2221C and HFT 3261. The major historical and geographical developments that have affected the creation of the cuisines of the world. Spring.

FSS 3124 RCHM-HOS 3(3,0) Supply and Procurement Management: PR: HFT 1000 and junior standing or C.I. The purchasing procedures, specifications, and controls of food and related products in the hospitality industry. Occasional. M&S fee: $45.00

FSS 3323C RCHM-HOS 3(1,3) Intermediate Techniques of Food Production: PR: HFT 4250C. An advanced food production course which provides the student the opportunity to develop skills in pantry, gardéman, garnishing, and convenience foods and services. Laboratory class. Occasional. M&S fee: $45.00

FSS 4135 RCHM-HOS 3(3,0) Corporate Contract and Managed Services Organizations: PR: HFT 3261. The unique characteristics of managed services including contracting, commodity purchasing, pricing, and revenue management. Occasional.

FSS 4286C RCHM-HOS 3(3,1) Catering and Banquet Organization: PR: FSS 2221C and junior standing or C.I. Methods and procedures for successful on and off premise catering functions. Emphasis on food and beverage preparation, menu planning, service and sales techniques. Laboratory class. Occasional. M&S fee: $45.00

GEA 4206 ECS-CEE 3(3,0) Physical Geography of North America: Analysis of the North American landscape as affected by climate, vegetation, and geomorphology. Occasional.

GEB 1091C BA-BUS 2(1,1) Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Business providing a foundation of leadership, scholarship, and service regarding disciplines in the college. Fall, Spring.

GEB 2011 BA-MAN 3(3,0) Management: PR: Junior standing. For non-business majors only. The interdisciplinary application of the managerial functions of planning, organizing, leading, and controlling. For Non-Business Major ONLY. Occasional.

GEB 2350 BA-MAR 3(3,0) Foundations of Business: Introduction to the U.S. business system and the role it plays in a global economy. Fall.

GEB 3031 BA-BUS 6(6,0) The Cornerstone Course: PR: Junior standing and business major or minor. ACG 2071, ECO 2013, ECO 2023, and CGS 2100C. An orientation to opportunities and challenges facing managers in contemporary business organizations. Introduces competencies of team work, communication, creative thinking, and adapting to change. Fall, Spring.

GEB 3113 BA-MAN 3(3,0) How to Start a Business: PR: Sophomore Standing, ECO 2013. Provides background and tools necessary to understand and participate in the entrepreneurial process within a large company, new venture, or growing a small business. Occasional.

GEB 3356 BA-FIN 3(3,0) Introduction to International Business: PR: Junior standing and business major or minor. ECO 2013, ECO 2023, and ACG 2071. Understanding the interdependence of globalized world economy and similarities and dissimilarities between domestic and international business domain. Fall, Spring.
GEB 3356H BA-FIN 3(3,0) Introduction to International Business - Honors: PR: Junior standing and business major or minor, permission of Honors, ECO 2013, ECO 2023, ACG 2071. Understanding the interdependence of globalized world economy and similarities between domestic and international business domain. Occasional.


GEB 3815 BA-MAN 3(3,0) Employee Training for Non-Business Majors: PR: MAN 3025. Employee training needs and practices as performed by supervisors and managers under the direction of organizational specialists. Designed for non-business majors. Occasional.

GEB 4111 BA-MAN 3(3,0) New Venture Finance: PR: FIN 3403. Provides hands-on processes for developing financial information necessary such as budgets and pro forma financial statements to start up a new venture. Odd Fall, Even Spring.

GEB 4117 BA-MAN 3(3,0) Business Plan Preparation: PR: MAN 4802. Develop a new venture plan evolving from an original concept through a process that incorporates all the elements of a professionally written business proposal. Fall, Spring.

GEB 4358 BA-FIN 3(3,0) International Negotiations and Transactions: PR: Finance major, Junior standing and admission to CBA. Focuses on providing an understanding of the concepts and skills required for international negotiations and transactions. Occasional.

GEB 4361 BA-MAN 3(3,0) Business in the International Environment: PR: Finance major, FIN 3403, MAR 3023, MAN 3025. Provides an overall understanding of the nature, magnitude, and importance of the international business sector. Occasional.

GEB 4363 BA-FIN 3(3,0) Export and Import Management: PR: Finance major, Junior standing and admission to CBA. Focuses on the management of export/import businesses and provides students with knowledge about international trade. Occasional.

GEB 5941 BA-BUS 1.5(1,5) Professional Business Practicum: PR: Acceptance in the graduate program. The practicum is to provide a professional business work experience for students entering the MBA program without such experience. Occasional.

GEO 1200 ECS-CEE 3(3,0) Physical Geography: Basic physical elements of geography, including climate, landforms, soils, natural vegetation, minerals, and their integrated patterns of world distribution. Fall, Spring.

GEO 2370 ECS-CEE 3(3,0) Resources Geography: Analysis of basic principles and problems associated with development, use, conservation, and management of natural resources, with special emphasis on the United States. Fall, Spring.

GEO 3471 COS-POLS 3(3,0) World Political Geography: Analysis of factors which affect power relations among nations, including area, location, political styles, ethnic divisions, and the politics of energy. Fall, Spring.

GER 1005 CAH-MUSIC 1(0,1) German Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, German songs, and opera libretto. Odd Spring.

GER 1120 CAH-LANG 4(4,1) Elementary German Language and Civilization I: Introduces the student to German culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Fall, Spring.

GER 1120H CAH-LANG 4(4,1) Honors Elementary German Language and Civilization I: PR: Permission of Honors. Introduces the student to German culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Honors level content. Occasional.

GER 1121 CAH-LANG 4(4,1) Elementary German Language and Civilization II: PR: GER 1120 or equivalent. Continuation of GER 1120. Fall, Spring.

GER 1121H CAH-LANG 4(4,1) Honors Elementary German Language and Civilization II: PR: GER 1120H or equivalent and permission of Honors. Continuation of GER 1120H, with honors-level content. Occasional.

GER 2200 CAH-LANG 3(3,1) Intermediate German Language and Civilization I: PR: GER 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level. Fall, Spring.

GER 2201 CAH-LANG 3(3,1) Intermediate German Language and Civilization II: PR: GER 2200 or equivalent. Continuation of GER 2200 with emphasis on German civilization. Spring.

GER 2210 CAH-LANG 3(3,0) Intensive German Conversation: PR: GER 1121 or C.I. Practical use of the language, leading toward fluency and correctness in speaking. Occasional.

GER 2240 CAH-LANG 3(3,0) German Conversation: PR: GER 2201 or equivalent. Development of skills in conversation and comprehension through practice. Occasional.

GER 2270 CAH-LANG 6(6,0) Intermediate German Study Abroad: PR: GER 1121 or equivalent. Intermediate German language and culture taught in the native environment. Occasional.

GER 2271 CAH-LANG 2(2,0) Modern German Civilization Abroad I: PR: One year of College-level German. Key elements of German life: its artistic, intellectual, scientific, and spiritual contributions to the world via guest lecturers, readings, films, and other media. In German. Occasional.

GER 3102 CAH-LANG 3(3,0) Germany - Past to Present: PR: GER 3760 or GER 3420 or equivalent. Cultural development that shaped modern Germany. Students will read and discuss selected texts from different literary periods and view the influences they had on culture and daily life. Course conducted in German. Occasional.

GER 3272 CAH-LANG 2(2,0) Modern German Civilization Abroad II: PR: GER 2201 or equivalent. Key elements of German life: its artistic, intellectual, scientific, and spiritual contributions to the world via guest lecturers, readings, films, and other media. In German. Occasional.

GER 3420 CAH-LANG 3(3,0) Intensive German Composition: PR: GER 2201 or equivalent. Development of skills in composition. Occasional.

GER 3440 CAH-LANG 3(3,0) Business German I: PR: GER 2200. Introduction to German business language and practices. Occasional.

GER 3441 CAH-LANG 3(3,0) Business German II: PR: GER 3440. Continuation of Business German I. Occasional.

GER 3470 CAH-LANG 6(6,0) Advanced German Study Abroad: PR: GER 2201. Advanced German grammar in the context of conversation and composition taught in the native environment. Occasional.

GER 3760 CAH-LANG 3(3,0) Advanced German Oral Communication: PR: GER 2201 or equivalent. Vocabulary building with systematic training in dictation and locution. Speeches and oral presentations as well as production and delivery of real-life dialogues. Even Fall.

GER 3780 CAH-LANG 3(3,0) German Phonetics and Diction: PR: GER 2201. The fundamental principles of German pronunciation. Occasional.

GER 4422 CAH-LANG 3(3,0) Advanced German Grammar: PR: GER 3760, or any other 3000 level German course. An accelerated grammar course designed for advanced students of the German language. Occasional.

GER 4510 CAH-LANG 3(3,0) Life and Culture in Nazi Germany: PR: C.I. Confrontation with the development of national socialist ideas and their realization in everyday life and culture. Given in German. Occasional.

GER 4520 CAH-LANG 3(3,0) Modern Germany: PR: Given in German. An introduction to the history of postwar Germany from the two Germanies to unification and today's Germany. Occasional.

GEW 3100 CAH-LANG 3(3,0) Survey of German Literature I: PR: GER 2201 or equivalent. Main literary currents and works from the Middle Ages through 15th Century Romanticism. Occasional.

GEW 3101 CAH-LANG 3(3,0) Survey of German Literature II: PR: GER 2201 or equivalent. Main literary currents and works from 19th Century Realism to the present. Occasional.

GEW 3370 CAH-LANG 3(3,0) Short Story: PR: GER 2201 or equivalent. German short prose works of the 19th and 20th centuries. Occasional.

GEW 3480 CAH-LANG 3(3,0) German Post-War Literature: PR: GER 2201. This course examines the works of German, Austrian and Swiss writers after World War II. Occasional.
GEW 4482 CAH-LANG 3(3,0)
German Children's Literature: PR: GER 2200. A look into the history of German children's literature with a concentration on works after World War II. Occasional.

GEW 4531 CAH-LANG 3(3,0)
The Age of Goethe and Schiller: PR: GER 2201. Selected texts of Goethe and Schiller are examined, with particular attention to their relationship to both German classicism and German romanticism. Occasional.

GEY 3001 HPA-SOWK 3(3,0)
Gerontology: An Interdisciplinary Overview: PR: Junior standing or C.I. Study of aging from an interdisciplinary perspective that bridges social and behavioral sciences, nursing, social work, allied health, and natural sciences. May be repeated for credit. Fall.

GEY 5007 HPA-NURS 3(3,0)
Women and Healthy Aging: PR: Graduate standing or senior undergraduate. The examination of the health promotion opportunities and bio-psycho-social challenges of women as they age. Spring.

GEY 5600 ED-TLP 3(3,0)
Physiology of Aging: PR: BSC 2010C or PCB 3703C or PET 4351C or equivalent. The purpose of this course is to develop the student's understanding of the effects of human aging on various body systems. Occasional.

GEY 564B COS-PSYCH 3(3,0)
Gerontology: An Interdisciplinary Approach: PR: Graduate status or senior standing or C.I. The study of aging will be presented from an interdisciplinary and multidisciplinary approach spanning the social sciences and health. Occasional.

GIS 3043C UGST-LIBERAL ST 3(2,2)
GIS for Environmental Studies: PR: CGS 1060C and BSC 2010C, or C.I. Geographic Information Systems (GIS) technology for environmental analysis. GIS theory with training using ArcGIS, including environmental analysis and facility siting studies. Odd Fall.

GIS 4035C ECS-CEE 3(2,2)
Remote Sensing of the Environment: PR: GEO 1200 or C.I. Interpretation and application of remote sensor imagery to physical, economic, and urban analysis. Occasional.

GIS 4301C UGST-LIBERAL ST 4(2,2)
Advanced GIS Applications in Environmental Studies: PR: GIS 3043C. GIS analysis techniques used in environmental science, including raster overlay site suitability modeling, least-cost optimum paths, 3D digital elevation models, network routing and geostatistical analysis. Occasional.

GLY 1030 COS-CHEM 3(3,0)
Geology and its Applications: Geologic principles, applications, and hazards including geomes, rock cycle, moving continents, mountain building, metal ores, fossil fuels, groundwater, sinkholes, beach erosion, landslides, earthquakes, tidal waves, volcanism. Fall, Spring.

GRA 2101C CAH-ART 3(2,4)
Introduction to Computer Art: PR: ART 2820 or C.I. Priority given to students whose major requires this course. The principles underlying the generation and display of graphical pictures by computer. Topics include graphical software packages and graphics systems. Fall, Spring. M&S fee: $15.00

GRA 2101H CAH-ART 3(2,4)
Honors Introduction to Computer Art: PR: ART 2820 and Consent of Honors. The principles underlying the generation and display of graphical pictures by computer. Topics include graphical software packages and graphics systems. With Honors consent. Occasional.

GRA 2111C CAH-ART 3(2,4)
Graphic Design I: PR: ART 2201C. Basic principles, concepts, and techniques in graphic design and art for visual publication. Occasional. M&S fee: $15.00

GRA 2140C CAH-ART 3(2,4)
Computer Graphic Design: PR: Acceptance in Graphic Design Concentration, GRA 3100C, ART 2201C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Problems involving the use of computer graphic systems for visual publication. Occasional. M&S fee: $15.00

GRA 2190C CAH-ART 3(2,4)

GRA 3100C CAH-ART 3(2,4)
Intermediate Graphic Design I: PR: Acceptance in Graphic Design Specialization and ART 2201C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Problems related to studio projects in graphic design. Fall. M&S fee: $15.00

GRA 3112C CAH-ART 3(2,4)
Intermediate Graphic Design II: PR: Acceptance in Graphic Design Concentration, ART 2201C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Further development of studio techniques and problems in graphic design with emphasis on digital prepress. Spring. M&S fee: $43.50

GRA 3113C CAH-ART 3(2,4)
Type & Design: PR: ART 2201C, ART 2300C, ART 2301C. A survey of type, calligraphy and letter forms and their appropriate use as subject matter for graphic design and publication. Fall, Odd Spring. M&S fee: $15.00

GRA 3151C CAH-ART 3(2,4)

GRA 3801C CAH-ART 3(2,4)

GRA 4119C CAH-ART 3(2,4)

GRA 4154C CAH-ART 3(2,4)
Advanced Illustration: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, GRA 3151C, and a satisfactory portfolio review or C.I. Illustration problems involving the use of advanced level techniques in illustration media. May be repeated for credit. Occasional. M&S fee: $45.00

GRA 4196C CAH-ART 3(2,4)
Advanced Graphic Design: PR: Acceptance in Graphic Design Specialization, ART 2201C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C, GRA 3112C, GRA 3151C or ART 3323C, GRA 4154C or ART 4302C, and a satisfactory portfolio review or C.I. Advanced problems in visual design and reproduction. May be repeated for credit. Spring. M&S fee: $43.50

GRA 4197C CAH-ART 3(2,4)
Special Problems in Graphic Design: PR: Acceptance in Graphic Design specialization and ART 2201C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C, GRA 3112C, GRA 3801C, GRA 4196C, GRA 3151C or ART 3323C, GRA 4154C or ART 4320C, and a satisfactory portfolio review or C.I. Problems involving the use of advanced computer graphic systems for electronic publication. Odd Fall. M&S fee: $15.00

GRE 1120H CAH-LANG 4(4,0)
Elementary Greek Language and Civilization I: PR: Permission of Honors. Introduces students to Classical Greek literature and civilization through the study of grammar and syntax and extensive readings of Greek texts. Occasional.

GRE 1121H CAH-LANG 4(4,1)
Elementary Greek Language and Civilization II: PR: GRE 1120H and permission of Honors. Continuation of Elementary Greek I. Occasional.

GRE 2220H CAH-LANG 4(4,0)
Introduction to Greek Literature: PR: GRE 1120H and permission of Honors. Readings in selected original Greek texts, e.g., Plato's apology. May be repeated for credit. Occasional.

HAI 1120 CAH-LANG 4(4,0)
Elementary Haitian Language and Culture I: Introduction to Haitian culture through the major language skills; listening, speaking, reading and writing. Occasional.

HAI 1121 CAH-LANG 4(4,0)

HBR 1120 CAH-JUD 4(4,0)
Elementary Modern Hebrew Language and Culture I: Designed to initiate the student to the major language skills; listening, speaking, reading and writing, as well as to constitute an introduction to Israeli culture. Fall.

HBR 1121 CAH-JUD 4(4,0)
Elementary Modern Hebrew Language and Culture II: PR: HBR 1120 or equivalent. Continuation of HBR 1120. Spring.

HBR 2200 CAH-JUD 3(3,0)
Advanced Modern Hebrew I: PR: HBR 1121 or equivalent. Designed to continue the study of Modern Hebrew; increase proficiency in conversation, reading and writing skills, and further expose students to Israeli culture. Occasional.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HBR 2201</td>
<td>CAH-JUD</td>
<td>3(3,0)</td>
<td>Intermediate Modern Hebrew II: PR: HBR 2200. Further development of modern Hebrew language skills in listening, speaking, reading, and writing. Occasional.</td>
</tr>
<tr>
<td>HBR 3410</td>
<td>CAH-JUD</td>
<td>3(3,0)</td>
<td>Conversational Israeli Hebrew: PR: HBR 1120, HBR 1121 or equivalent. C.I. Study and practice of contemporary conversational Israeli Hebrew. Occasional.</td>
</tr>
<tr>
<td>HFT 1000</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Introduction to the Hospitality and Tourism Industry: An orientation to the hotel, restaurant, and travel industry, and its history, structure, and operating procedures. Fall, Spring.</td>
</tr>
<tr>
<td>HFT 1350</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Career &amp; Promotional Development in Golf: PR: HFT 1357. The developmental sequence of lifelong programs for juniors, women, and seniors; in the golf industry. Spring.</td>
</tr>
<tr>
<td>HFT 1356</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Concepts and Practices of Golf Associations: PR: Admission to Professional Golf Management Program; CR HFT 1000, Philosophies and ideals of the Professional Golfers Association of America and the importance of the rules of golf as related to rules decisions. Fall.</td>
</tr>
<tr>
<td>HFT 1357</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Golf Event Operations: PR: HFT 1359. Develop, plan, and organize golf tournaments of all types. Even Spring.</td>
</tr>
<tr>
<td>HFT 2220</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Hospitality Human Resources Management: Application of strategic principles of human resources to the hospitality tourism setting. Fall, Spring.</td>
</tr>
<tr>
<td>HFT 2254</td>
<td>RCHM-HOS</td>
<td>3(3,0)</td>
<td>Lodging Operations: PR: HFT 1000. Basic principles of operating a lodging facility including accounting, housekeeping, engineering, front desk, and guest services. Fall, Spring.</td>
</tr>
<tr>
<td>HFT 2403</td>
<td>RCHM-HOS</td>
<td>3(3,0)</td>
<td>Hospitality Industry Financial Accounting: Basic understanding of financial accounting and specifically hospitality industry accounting concepts and procedures used in hotels, restaurants and clubs. Fall, Spring.</td>
</tr>
<tr>
<td>HFT 2500</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Hospitality and Tourism Marketing: PR: HFT 1000. The application of marketing concepts to the Hospitality and Tourism Industry. Special emphasis on marketing planning and strategic marketing. Fall, Spring.</td>
</tr>
<tr>
<td>HFT 2750</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>The Event Industry: Overview of meetings, conventions, special events and exhibitions including the roles of organizations and people involved in the businesses that comprise this industry. Fall, Spring.</td>
</tr>
<tr>
<td>HFT 3261</td>
<td>RCHM-HOS</td>
<td>3(3,0)</td>
<td>Restaurant Management: PR: HFT 1000 and junior standing or C.I. Discussion of the topics integral for the successful management of restaurant and food service organizations. Fall, Spring.</td>
</tr>
<tr>
<td>HFT 3273</td>
<td>RCHM-HOS</td>
<td>3(3,0)</td>
<td>Principles of Resort Timesharing: PR: HFT 1000 and junior standing or C.I. Principles of resort timeshare operations and ownership. Fall, Spring.</td>
</tr>
<tr>
<td>HFT 3285</td>
<td>RCHM-HOS</td>
<td>3(3,0)</td>
<td>International Restaurant Corporation Management: PR: HFT 2621. The specific principles of managing a restaurant corporation in the international foodservice marketplace. Occasional.</td>
</tr>
<tr>
<td>HFT 3313</td>
<td>RCHM-HOS</td>
<td>3(3,0)</td>
<td>Hospitality Physical Plant Management: PR: Junior standing. Analysis of operational problems related to the physical plant and structure of enterprises in the hospitality industry. Spring.</td>
</tr>
<tr>
<td>HFT 3353</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Golf Planning &amp; Operations I: PR: HFT 2359. Customer relations concepts, an effective golf instruction program, and characteristics of effective merchandising &amp; inventory procedures. Occasional.</td>
</tr>
<tr>
<td>HFT 3354</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Agronomy for Golf Course Management: PR: HFT 3353. Primary roles and responsibilities of the golf course superintendent. Occasional.</td>
</tr>
<tr>
<td>HFT 3355</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Golf Planning &amp; Operations II: PR: HFT 3353. Merchandising and inventory control, golf swing philosophy and leadership models. Occasional.</td>
</tr>
<tr>
<td>HFT 3374</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Multi Media Applications in Exhibitions: PR: HFT 1000, HFT 2750, or C.I. The management of the audio and visual process of a large exhibition. Occasional.</td>
</tr>
<tr>
<td>HFT 3431</td>
<td>RCHM-HOS</td>
<td>3(3,0)</td>
<td>Hospitality Industry Managerial Accounting: PR: HFT 2403 and junior standing or C.I. Presentation, interpretation, and analysis of internal and external hospitality industry financial reports affecting management decisions using hospitality industry systems of accounting. Fall, Spring.</td>
</tr>
<tr>
<td>HFT 3443</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Event Technology: PR: HFT 1000 and HFT 2750; or C.I. Use of technology in the event industry to solidify processes and help people be more productive. Covers types of technology for different event processes. Occasional.</td>
</tr>
<tr>
<td>HFT 3444</td>
<td>RCHM-HOS</td>
<td>3(3,0)</td>
<td>Hospitality Information Systems: PR: CGS 2100C, HFT 2254, and HFT 3261; or C.I. Focuses on management functions and practices, information systems and technology in hospitality. Higher tech for higher touch building on computer literacy and operation knowledge. Fall, Spring.</td>
</tr>
<tr>
<td>HFT 3511</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Convention and Conference Sales: PR: HFT 2750, HFT 2500 and junior standing or C.I. In-depth understanding of the sales process for the convention marketplace. Covers the people, methods, materials and equipment needed. Fall.</td>
</tr>
<tr>
<td>HFT 3512</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Event Promotion: PR: HFT 1000, HFT 2750, and HFT 2500; or C.I. Promotion of events to sponsors, attendees, exhibitors and other participants. Occasional.</td>
</tr>
<tr>
<td>HFT 3515</td>
<td>RCHM-HOS</td>
<td>3(3,0)</td>
<td>Reservations Sales &amp; Marketing: PR: HFT 1000, HFT 2500 or C.I. Provides insight to all aspects of planning, performing and measuring room sales activities. Focus will be to manage all distribution channels to maximize profitability. Odd Fall.</td>
</tr>
<tr>
<td>HFT 3540</td>
<td>RCHM-HOS</td>
<td>3(3,0)</td>
<td>Guest Services Management I: PR: Junior standing or C.I. The study of making decisions from the guest’s point of view in the hospitality industry. Fall, Spring.</td>
</tr>
<tr>
<td>HFT 3600</td>
<td>RCHM-HOS</td>
<td>3(3,0)</td>
<td>Legal Environment in the Hospitality and Tourism Industry: PR: C.I. Principles of law as related to the Hospitality/Tourism Industry. Fall, Spring.</td>
</tr>
<tr>
<td>HFT 3610</td>
<td>RCHM-HOS</td>
<td>3(3,0)</td>
<td>Law and Restaurant Management: PR: HFT 3600 and HFT 3261. Emphasis on regulatory, case and administrative law. Compliance, prevention, and remedial actions are stressed. Occasional.</td>
</tr>
<tr>
<td>HFT 3654</td>
<td>RCHM-HOS</td>
<td>3(3,0)</td>
<td>Franchising in the Restaurant Industry: PR: Restaurant Management Core or C.I. Addresses the legal requirements for franchising, contract rates, responsibilities, size, structure, and history. Fall.</td>
</tr>
<tr>
<td>HFT 3670</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Hospitality and Event Risk Management: PR: HFT 1000 and HFT 2750; or C.I. Risk, crisis, and liability issues that may arise in the planning and management of special events, meetings, conventions, and exhibitions. Occasional.</td>
</tr>
<tr>
<td>HFT 3700</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Tourism Management: PR: HFT 1000 and junior standing or C.I. Analysis of the tourism phenomenon in contemporary societies. An exploration of major concepts about tourism as an inter-linked industry composed of many sectors within both the private and public sectors. Fall, Spring.</td>
</tr>
<tr>
<td>HFT 3741</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Meeting Management: PR: HFT 4753 and HFT 4754. The process of meeting planning, from setting objectives to analyzing the success of the event. Fall, Spring.</td>
</tr>
<tr>
<td>HFT 3757</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Event Management: PR: HFT 1000 and junior standing or C.I. Reviews the role and scope of events in the hospitality industry, as well as the process of planning, organizing, and managing events. Fall, Spring. M&amp;S fee: $37.00</td>
</tr>
<tr>
<td>HFT 3770</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Cruise Line Operations and Management: PR: HFT 1000 and junior standing or C.I. Understanding of cruise company operations and management. Shipboard organization and delivery of the cruise product to the guest. Occasional.</td>
</tr>
<tr>
<td>HFT 3784</td>
<td>RCHM-TEA</td>
<td>3(3,0)</td>
<td>Amusement Technology: PR: HFT 1000 and HFT 4755. Exploration of various technologies utilized by the leisure-based entertainment industry. Includes amusement devices, operational and IT software packages as well as ride and show systems. Spring.</td>
</tr>
</tbody>
</table>
UCF Courses and Descriptions

HFT 3785 RCHM-TEA 3(3,0)
Management of Gaming Enterprises: PR: Junior level standing, an in-depth study of gaming-based organizations including cruise ships, Indian reservation casinos, and others. The history and development of gaming organizations, the economics, social, and cultural impact of gaming and managerial opportunities and challenges in the industry. Occasional.

HFT 3792 RCHM-TEA 3(3,0)
Event Design and Production: PR: HFT 1000, HFT 2750, HFT 3443, and HFT 3670; or C.I. The many aspects of event production, including art, design, and staging. Provides hands on practical experience. Occasional.

HFT 3798 RCHM-TEA 3(3,0)
Fairs and Festivals: PR: HFT 1000 and HFT 2750; or C.I. Evolution of modern day exhibitions and trade shows from fairs and festivals. Occasional.

HFT 3802 RCHM-TEA 3(3,0)
Catering Management: PR: HFT 1000, HFT 2750. Catering sales and operations. Emphasis on logistics, market segments, and service. Fall, Spring. M&S fee: $45.00

HFT 3807 RCHM-HOS 3(3,0)
Multi-Unit Food Service Operations: PR: HFT 1000 and junior standing or C.I. The strategy and managerial aspects of chain restaurant management, including organization development, brand building, and industry segments. Spring.

HFT 3834 RCHM-HOS 3(3,0)
Topics in Restaurant and Foodservice Management: PR: HFT 3261 and FSS 2221C. Guest lecture series covering contemporary issues in the various segments of the foodservice industry. Odd Spring.

HFT 3868 RCHM-HOS 3(3,0)
History and Culture of Wine: PR: World History course or C.I. The role that wine has played in the history, culture, and religion of diverse civilizations. Fall, Spring.

HFT 3933 RCHM-TEA 1(1,0)
Distinguished Lectures in Hospitality Management: PR: HFT 1000, Junior standing. First hand introduction to hospitality leaders, their perspectives on the segments they represent, and the breadth of those segments. Graded S/U. Fall, Spring.

HFT 3949 RCHM-RCHM 0-5(0,1-5)
Cooperative Education: Provides paid, pre-professional work experience related to the students’ major while they continue to attend school. Requires achievement of major-related learning objectives. Fall, Spring.

HFT 4250C RCHM-HOS 3(3,1)
Hospitality Operations: PR: Junior Standing or C.I. An integration of lodging and food service operations providing students with a comprehensive knowledge of these related content areas; food service lab component. Occasional.

HFT 4253 RCHM-HOS 3(3,0)
Hotel Operations: PR: HFT 1000; HFT 2220; FSS 2221C; HFT 2254; HFT 2500; HFT 3600; HFT 2750; HFT 2403; HFT 3444; HFT 3540. Provides the advanced student with first-hand knowledge of the day-to-day operations of a hotel property. Reconciles conflicts between theory and practice in a real life hotel. Spring.

HFT 4255 RCHM-HOS 3(3,0)
Advanced Hotel Development: PR: HFT 4462, HFT 4473, or C.I. Hotel investment practices, risk management and other investment decision factors. Occasional.

HFT 4266 RCHM-HOS 3(3,0)
Restaurant Brand Management: PR: HFT 3261 and junior standing or C.I. Exploration of the principles of brand management for the corporate restaurant industry. Occasional.

HFT 4268 RCHM-HOS 3(3,0)
Case Studies in Restaurant Management: PR: HFT 3261 and junior standing or C.I. Application of case study methodology to advanced topics in restaurant and food service management. Fall, Spring.

HFT 4269 RCHM-HOS 3(3,0)
Case Studies in Multi-Unit Restaurant Management: PR: HFT 3261. Restaurant Management. Application of case study methodology to advanced topics in chain or multi-unit restaurant and foodservice operations. Fall.

HFT 4274 RCHM-HOS 3(3,0)
Vacation Ownership Resort Management: PR: HFT 1000, HFT 3273, HFT 4522 or C.I. Comprehensive analysis of applied theories, principles, and techniques used in the management of vacation resorts. Occasional.

HFT 4275 RCHM-HOS 3(3,0)
Development of Vacation Ownership Resorts: PR: HFT 3273 and HFT 4473 or C.I. Comprehensive analysis of applied theories, principles, and techniques used in the planning and development of vacation resorts. Occasional.

HFT 4277 RCHM-TEA 3(3,0)
Yacht, Country, And City Club Management: PR: HFT 1000 and junior standing or C.I. A study of the history, development, operation and management of Yacht, Country and City Clubs. Emphasis will be placed on operational aspects. Fall.

HFT 4281 RCHM-HOS 3(3,0)
Restaurant Leadership Strategies and Tactics: PR: Hospitality Management Core and Restaurant Management Core or C.I. An analysis of the leadership styles of restaurant industry founders and executives. Fall, Spring.

HFT 4284 RCHM-HOS 3(3,0)
Training and Employee Performance in the Foodservice Industry: PR: HFT 2220, HFT 3540, HFT 4266, HFT 4268; HFT 4434; FSS 3124; FSS 4135. Teaching and training methodologies relative to the service positions in a restaur. Encompasses training techniques, guest interaction, and assessment of service performance. Occasional.

HFT 4286 RCHM-TEA 3(3,0)
Hospitality Communications: PR: HFT 1000; HFT 2220; FSS 2221C; HFT 2254; HFT 2500; HFT 3600; HFT 2750; HFT 4203; HFT 3444; HFT 3540. Communication exchanges in the hospitality industry for effective presentations, conflict resolution, and report writing. Emphasis on inter departmental dependence by managers in hospitality enterprises in the areas of reading, writing, speaking, and listening. Fall, Spring.

HFT 4294 RCHM-HOS 3(3,0)

HFT 4295 RCHM-TEA 3(3,0)
Leadership and Strategic Management in Hospitality Industry: PR: Completion of Hospitality Management Core program. Principles of strategic decision making in various hospitality and tourism organizations; lectures, class discussions, and group case analysis presentations. Fall, Spring.

HFT 4298 RCHM-TEA 3(3,0)

HFT 4343 RCHM-HOS 3(3,0)
Hospitality Facilities Planning and Design: PR: HFT 2254 and junior standing; or C.I. Principles of facility planning, layout and design for dining, kitchen, guest room, lobby, and service areas. Odd Fall.

HFT 4358 RCHM-TEA 3(3,0)

HFT 4375 RCHM-TEA 3(3,0)
Advanced Trade Show Management: PR: HFT 4754 or C.I. Trade show installation, floor management and dismantling/shipping. Pre-event logistics and on-site management of critical success factors. Occasional.

HFT 4413 RCHM-HOS 3(3,0)
Technology Applications for Hospitality Management: PR: HFT 3444. Hospitality Information Systems. Provides students with fundamental information system concepts and techniques for effective applications to strategic thinking in hospitality organizations. Odd Spring.

HFT 4425 RCHM-HOS 3(3,0)
Financial Analysis for Restaurant Managers: PR: HFT 2403, HFT 3431, and HFT 3261. Topics of unit level economics, budgeting, valuation of restaurant enterprises, ownership models, franchising finance, and securing access to capital through debt and equity markets. Occasional.

HFT 4432 RCHM-HOS 3(3,0)

HFT 4442 RCHM-TEA 3(3,0)
Vacation Ownership Reservations and Database Systems: PR: HFT 1000, HFT 3273, HFT 4522, HFT 4274 or C.I. Techniques and strategies necessary for owner exchange, information transmission, and financial reporting. Occasional.

HFT 4453 RCHM-HOS 3(3,0)

HFT 4462 RCHM-HOS 3(3,0)
Hospitality Industry Finance: PR: HFT 3431 and junior standing or C.I. Working knowledge of finance concepts and theories applicable to the Hospitality Industry including evaluating management contracts, franchising, and leasing. Odd Fall, Odd Spring.

HFT 4473 RCHM-HOS 3(3,0)
Vacation Ownership Resort Sales Tactics and Strategies: PR: HFT 3273 or C.I. Sales tactics and corporate strategies employed in the sales and marketing of vacation ownership properties. Occasional.
### UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Department</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM 4676</td>
<td>HPA-HP</td>
<td>Professional Development and Issues in Health Information Management</td>
<td>PR: HIM 4344C, HIM 4506. Analysis of management functions in health care setting; the HIM professional as an educator; problem-solving techniques; professional ethics; alternative careers. Spring.</td>
</tr>
<tr>
<td>HIM 4838</td>
<td>HPA-HP</td>
<td>Management Affiliation</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>HIS 3949</td>
<td>CAH-HIST</td>
<td>Cooperative Education in History</td>
<td>PR: Departmental permission required before registering. Cooperative education experience in history. May be repeated once for credit. Graded SA. Occasional.</td>
</tr>
<tr>
<td>HIS 4150</td>
<td>CAH-HIST</td>
<td>History and Historians</td>
<td>PR: C.I. A study of European and/or American historiography. May be repeated once for credit. Fall, Spring.</td>
</tr>
<tr>
<td>HIS 4935</td>
<td>CAH-HIST</td>
<td>Senior Seminar</td>
<td>PR: Senior standing, history major, and C.I. Research in history through sustained reading, writing, and discussion on a focused topic. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>HIS 4944</td>
<td>CAH-HIST</td>
<td>Internship in Public History</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>HIS 4970</td>
<td>CAH-HIST</td>
<td>Senior Thesis</td>
<td>PR: Original research paper available to advanced history majors. Topics to be selected in consultation with a directing professor. Occasional.</td>
</tr>
<tr>
<td>HIS 5067</td>
<td>CAH-HIST</td>
<td>Introduction to Public History</td>
<td>PR: Graduate status or senior standing or C.I. Examine and discuss the practice of history in museums, archives, documentary editing, historical publication, media, historical societies, and government agencies. Occasional.</td>
</tr>
<tr>
<td>HIS 5158</td>
<td>CAH-HIST</td>
<td>Classic and Contemporary Historical Thought</td>
<td>PR: Graduate status or senior standing or C.I. Course will explore work of important historians influenced by social theory to gain an understanding of their main concepts. Occasional.</td>
</tr>
<tr>
<td>HLP 2701</td>
<td>ED-TLP</td>
<td>Peer Education Training</td>
<td>PR: Sophomore standing and C.I. Strategies for teaching life skills and health education information for secondary students and college age peers. Fall, Spring.</td>
</tr>
<tr>
<td>HLP 4722</td>
<td>ED-TLP</td>
<td>Teaching Elementary School Health and Physical Education</td>
<td>PR: Admission to Phase II or C.I. Practice, and conduct of health (including drug abuse) and physical education programs in the elementary school. Includes field experience. Fall, Spring.</td>
</tr>
<tr>
<td>HSA 3111</td>
<td>HPA-HP</td>
<td>U.S. Health Care Systems</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>HSA 3222</td>
<td>HPA-HP</td>
<td>Long Term Care and Administration</td>
<td>PR: HSA 3111 or C.I. The clients, services, and administration of long-term care in specific settings. Students complete a service learning component in long-term care organizations. Even Fall, Spring.</td>
</tr>
<tr>
<td>HSA 3340</td>
<td>HPA-HP</td>
<td>Health Care Economics</td>
<td>PR: HSA 3111; ECO 2023; or C.I. To provide an application of economic principles to analyze how different economic incentives affect patients, providers, and policy makers behaviors in the delivery of health services. Fall, Spring.</td>
</tr>
<tr>
<td>HSA 4109</td>
<td>HPA-HP</td>
<td>Principles of Managed Care</td>
<td>PR: HSA 3111 or C.I. Course will introduce the contractual, financial, and practice pattern components of managed care. Even Fall, Spring.</td>
</tr>
<tr>
<td>HSA 4151H</td>
<td>HPA-HP</td>
<td>Honors Health Care Policy</td>
<td>PR: Permission of Honors and Junior Standing or C.I. Examination of five significant policy issues to enable the student to gain knowledge and understanding of the complexities of health care as a societal issue. Occasional.</td>
</tr>
<tr>
<td>HSA 4180</td>
<td>HPA-HP</td>
<td>Organization and Management for Health Agencies</td>
<td>PR: HSA 3111 or C.I. Organization and management of health care agencies, including procedural applications. Fall, Spring.</td>
</tr>
<tr>
<td>HSA 4191</td>
<td>HPA-HP</td>
<td>Health Care Automation</td>
<td>PR: HSA 3111; CGS 2100C, or CGS 1060C; or C.I. Analysis and design of computerized systems for health data and health administration. Fall, Spring.</td>
</tr>
<tr>
<td>HSA 4201</td>
<td>HPA-HP</td>
<td>Community Health</td>
<td>PR: HSA 3111 or C.I. Historical, sociocultural and economic factors in community health; current community health problems; interphase of governmental, voluntary and private agencies. Fall, Spring.</td>
</tr>
<tr>
<td>HSA 4502</td>
<td>HPA-HP</td>
<td>Risk Management Systems</td>
<td>PR: HSA 3111 or C.I. Safety, liability and loss control issues with emphasis on risk retention, risk reduction and risk transfer in health care. Fall, Spring.</td>
</tr>
<tr>
<td>HSA 4701</td>
<td>HPA-COMD</td>
<td>Introduction to Research in the Health Professions</td>
<td>PR: Senior or post-bac standing. The logic of research and the architecture of basic and applied investigations that are internally and externally reliable and valuable will be stressed. Occasional.</td>
</tr>
<tr>
<td>HSA 4702</td>
<td>HPA-HP</td>
<td>Health Sciences Research Methods</td>
<td>PR: HSA 3111; STA 2014C or STA 2022; or C.I. Introduction to research design in the Health Sciences, including design, literature review, testing, analysis, and conclusions. Fall, Spring.</td>
</tr>
<tr>
<td>HSA 5177</td>
<td>HPA-HP</td>
<td>Foundations of Health Care Finance</td>
<td>PR: Admission to graduate program in HSA or C.I. Preparatory course for graduate students who are not prepared to take the required health care finance course. Occasional.</td>
</tr>
<tr>
<td>HSA 5198</td>
<td>HPA-HP</td>
<td>Health Care Decision Sciences and Knowledge Management</td>
<td>PR: Graduate standing. Emphasis on development of a general systematic approach to solving problems under uncertainty. The role of informatics and application of information technology in improving managerial decision making process will be presented. Occasional.</td>
</tr>
<tr>
<td>HSA 5257</td>
<td>HPA-HP</td>
<td>ICD9 Coding for Health Services Administrators</td>
<td>PR: HSC 6636, B.S. in Health related field, or C.I. Emphasis on developing basic skills to facilitate an understanding of the coding process and the compliance issues relevant to the process. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>HSA 5258</td>
<td>HPA-HP</td>
<td>CPT Coding for Health Services Administrators</td>
<td>PR: HSC 6636 or C.I., or BS in Health-related field. Emphasis on developing skills to facilitate an understanding of CPT Coding process and the compliance issues relevant to the process. Occasional.</td>
</tr>
<tr>
<td>HSC 2000</td>
<td>HPA-HP</td>
<td>Introduction to the Allied Health Professions</td>
<td>PR: A survey of allied health professions with regard to duties, responsibilities, education and training, ethics, and relationships with other health professionals. Graded SU. Fall.</td>
</tr>
<tr>
<td>HSC 2921</td>
<td>HPA-HPA</td>
<td>LEAD Colloquium</td>
<td>PR: Accepted to the LEAD Scholars Program and have completed at least two of the following with a B (3.0) or better: HSC 1901C, EGN 1083C, IDS 1040C, GEB 1091C or EDG 1005C. Experiential leadership in an appropriate setting with the LEAD Scholars Program. May be repeated for credit. Occasional.</td>
</tr>
</tbody>
</table>
HSC 3110C HPA-HP 3(2,2) Medical Self Assessment: Development of clinical skills and understanding of one's health to encourage active participation of individuals in their own health care. Fall, Spring. M&S fee: $15.00

HSC 3157 HPA-HP 3(3,0) Introduction to Pharmacology: Review of terminology and regulations. Study of drug types and usage. Fall, Spring.

HSC 3402C HPA-HP 3(2,3) CPR & First Aid: To train individuals to accept and recognize medical standards in emergency first aid and CPR to include medical, environmental and trauma related emergencies. Occasional.

HSC 3531 HPA-HP 3(3,0) Medical Terminology: A study of the language of medicine and allied health specialties, including work construction, definitions, and application of terms. Fall, Spring.

HSC 3559 HPA-COMD 3(3,0) Disabilities in American Society: PR: Junior or senior status. Personal, social, and environmental impediments confronted by persons with disabilities, including communicative disorders. Strategies that promote life satisfaction are also reviewed. Fall.

HSC 3593 HPA-HP 3(3,0) HIV Disease: A Human Concern: Analysis of the spectrum of HIV disease and the issues surrounding this public health crisis. Fall, Spring.

HSC 3640 HPA-HP 3(3,0) Health Law: PR: HSA 3111 or C.I. Principles of law as applied to the health field, with special reference to health practices. Fall, Spring.

HSC 4008 HPA-HP 3(3,0) Professional Development in Health Professions: PR: RET 3026C or C.I. Career development planning, professional leadership approaches to problem solving, regulatory and professional requirements, and the impact of disease and technology on the health care industry. Spring.

HSC 4148 HPA-HP 2(2,0) Medical Pharmacology I: Drugs in pulmonary diseases; effects on nervous system, and neuroaffectives, depressants & stimulants; influence on metabolism and endocines. (MDRD) Bronchodilators, myoclytics, etc. Fall.

HSC 4149 HPA-HP 2(2,0) Medical Pharmacology II: PR: HSC 4148 or C.I. Drugs used in cardiovascular disorders. Includes inotropic, chronotropic agents, beta blocker drugs, calcium channel antagonists. Spring.

HSC 4243 HPA-HP 3(3,0) Analysis of Instruction in Health Professions: Development of teaching aids, audiovisuals, learning packets. Course development, questioning strategies, evaluation of didactic and clinical performance. Spring.

HSC 4500 HPA-HP 3(3,0) Pathophysiology: PR: HSA 3111 or C.I. STA 204C or STA 2023. A study of the distribution and determination of diseases and injuries in human population. Fall, Spring.

HSC 4550 HPA-HP 3(3,0) Pathophysiology: PR: ZOO 3733C and PCB 3703C, or C.I. A study of pathologic lesions and pathophysiologic mechanisms in causation and evolution of the various disease state. Fall, Spring.

HSC 4564 HPA-HP 3(3,0) Health Care Needs of the Elderly: PR: HSA 3111 or C.I. Overview of the physical and emotional needs of the elderly, including the institutional health care available. Fall, Spring.

HSC 4653 HPA-HP 3(3,0) Health Care Ethics: PR: HSA 3111 or C.I. A study of ethical issues in health care, including life-saving measures, rights to die, transplants, surrogate parenthood, privacy and confidentiality, and decision-making. Fall, Spring.

HSC 5317 ED-TLP 3(3,0) Health Methods: Teaching Strategies and Interventions: PR: Admission to Graduate Certificate in Health and Wellness or C.I. Application of the knowledge of teaching strategies, methodology, and curriculum to develop a comprehensive school health program. Occasional.

HSC 5595 HPA-HP 3(3,0) AIDS: A Human Concern: Focus on epidemiology, transmission, prevention, legal and health care issues, economic impact, psychosocial aspects, sexuality, substance abuse, ethics, hotlines, referral services and the decision making process. Occasional.

HUM 2210 CAH-PHIL 3(3,0) Humanistic Tradition I: An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on ancient civilizations and the cultural heritage stemming from them. Primary sources (in translation) are emphasized. Fall, Spring.

HUM 2210H CAH-PHIL 3(3,0) Honors Humanistic Tradition I: PR: Permission of Honors. An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on ancient civilizations and the cultural heritage stemming from them. Primary sources (in translation) are emphasized. Honors content. Fall.

HUM 2230 CAH-PHIL 3(3,0) Humanistic Tradition II: An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on modern civilizations and their contributions to the Global Village. Primary sources (in translation) are emphasized. Honors content. Spring.

HUM 2230H CAH-PHIL 3(3,0) Honors Humanistic Tradition II: PR: Permission of Honors. An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on modern civilizations and their contributions to the Global Village. Primary sources (in translation) are emphasized. Honors content. Spring.

HUM 3252 CAH-PHIL 3(3,0) Contemporary Humanities: PR: ENC 1102 or C.I. Multicultural study of Philosophy and the arts of the 20th century. Occasional.

HUM 3255 CAH-PHIL 3(3,0) Modern Humanities: PR: ENC 1102 or C.I. Multicultural study of Philosophy and the arts of the modern period. Occasional.

HUM 3320 CAH-PHIL 3(3,0) Contemporary Multicultural Studies: PR: HUM 2230, Junior standing, or C.I. Studies the confluence of diverse cultures making up North America in the Information Age, focusing on complete primary sources in philosophy, literature, visual arts and music. Even Fall.

HUM 3394 CAH-PHIL 3(3,0) Representations of Place and Space: PR: HUM 2230 or C.I. Phenomenological, symbolic, constructivist, and determinist approaches to personal and social place and space. Occasional.

HUM 3401 CAH-PHIL 3(3,0) Asian Humanities: PR: HUM 2230 or C.I. An interdisciplinary survey of the cultures of India, China, and Japan, concentrating on their traditional art, literature, religion, philosophy, and music. Occasional.

HUM 3417 CAH-PHIL 3(3,0) Hindu Thought and Culture: PR: HUM 2230, REL 2300, or C.I. A survey of the development of Hindu thought and culture from vedic times to the modern age, with emphasis on religion, literature, philosophy, art and music. Occasional.

HUM 3419 CAH-PHIL 3(3,0) Islamic Thought and Culture: PR: HUM 2230, or REL 2300, or C.I. The development of Islamic thought and culture, concentrating on religion, jurisprudence, philosophy, science and art with special focus on perception of Islam in Western literature and scholarship. Occasional.

HUM 3419H CAH-PHIL 3(3,0) Honors Islamic Thought and Culture: PR: HUM 2230, or REL 2300, and Consent of Honors. The development of Islamic thought and culture, concentrating on religion, jurisprudence, philosophy, science and art with special focus on perception of Islam in Western literature and scholarship. With Honors content. Occasional.

HUM 3431 CAH-PHIL 3(3,0) Ancient Humanities: PR: HUM 2230 or C.I. Development of Ancient Greek thought and culture with emphasis on philosophy, religion, literature and art. Occasional.

HUM 3435 CAH-PHIL 3(3,0) Medieval Humanities: PR: ENC 1102 or C.I. Development of Medieval thought and culture with emphasis on Philosophy, Religion, Literature and Art. Occasional.

HUM 3460 CAH-PHIL 3(3,0) Latin American Humanities: PR: HUM 2210 or HUM 2230. Ideas in cultures of Latin America and Caribbean basin as expressed in arts, architecture, music, philosophy, religion, literature and film. Occasional.

HUM 3552 CAH-PHIL 3(3,0) Christian Thought: PR: ENC 1102. Christian thought from 4th century to present, concentrating on human nature, social justice, the state, war, and attitudes toward women. Occasional.

HUM 3553 CAH-PHIL 3(3,0) Moses, Jesus and Muhammad: PR: HUM 2230, REL 2300, or C.I. Deals with the main themes of Judaism, Christianity, and Islam as found in the teachings of Moses, Jesus, and Muhammad. Occasional.

HUM 3800 CAH-PHIL 3(3,0) Research Methods in Humanities: PR: Junior standing, and Humanities or Philosophy major or C.I. Research skills for the humanities, including methodologies, writing techniques, essay structuring, formatting, and methods for citing references and constructing bibliographies. Occasional.
UCF Courses and Descriptions

HUM 4301 CAH-PHIL 3(3,0)
The Classical Ideal: PR: HUM 2210 and HUM 2230 or C.I. The search for order and form in the arts of various times and cultures. Concerns reason, structure, objectivity, harmony. Open to all Juniors and Seniors. Occasional.

HUM 4303 CAH-PHIL 3(3,0)
The Spiritual Ideal: PR: HUM 2210 and HUM 2230 or C.I. Concerns works of art reflecting spiritual insight or the spiritual quest; mystical impulses contrasted to ethos and pathos. Odd Fall.

HUM 4330 CAH-PHIL 3(3,0)
Performance Theory: PR: Junior standing and HUM 2230 and either PHI 2010, PHI 2111, PHI 2108, or C.I. Traditional and contemporary theories of performance with a focus on linguistic performatives, bodily and virtual performances, self-identity, and the politics of performance. Occasional.

HUM 4393 CAH-PHIL 1(1,0)
Portfolio: PR: Last semester as Humanities major. Presentation of a representative sampling of student's best undergraduate work, with appropriate revisions, including a cover narrative indicating development of humanistic knowledge and skills. Graded S/U. Fall, Spring.

HUM 4554 CAH-PHIL 3(3,0)
Religious Quest and Human Dilemma: PR: ENC 1102 or C.I. Nature of the sacred, death, and future life and how they relate to human existence. Even Fall.

HUM 4556 CAH-PHIL 3(3,0)
Religion and the Arts: PR: One of: HUM 2210, HUM 2230, ARH 2050, ARH 2051, or REL 2300. Art, music, dance, and ritual practices in religious traditions, with emphasis on the contemporary. Occasional.

HUM 4823 CAH-PHIL 3(3,0)

HUM 4933 CAH-PHIL 3(3,0)
Senior Research Seminar: PR: Senior standing and Humanities major. Capstone course on research, developing effective oral and written communication skills. Occasional.

HUM 5802 CAH-PHIL 3(3,0)
Applied Contemporary Humanities: PR: HUM 5803, graduate status or senior standing, or C.I. Development of an application research project relevant to contemporary cultural issues, using Humanities theories and methods. Occasional.

HUM 5803 CAH-PHIL 3(3,0)
Theories and Methods of the Humanities: PR: Senior undergraduate standing and at least one of the following: HUM 3252, HUM 3320, or PHI 4808 or Graduate Standing. Approaches, concepts, methods, and theoretical issues in the Humanities with an emphasis on critical analysis of diverse disciplinary and interdisciplinary theories and methods. Fall.

HUN 2002 HPA-HP 3(3,0)
Modern Concepts in Nutrition: An examination of the eating patterns of today's American people. Topics include: nutrients in our diets, consumer demand in the food industry, fast food outlets, food trends and hunger. Fall, Spring.

HUN 3011 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. Fall, Spring.

HUN 3013 RCHM-HOS 3(3,0)

HUN 5936 HPA-HP 3(3,0)
Nutrition and Exercise Physiology: This course correlates human nutrition with exercise physiology. Nutritional concepts are related to human performance and fitness. Occasional.

IDS 1040H BHC-HON 2(2,1)
Honors Foundation of Leadership: PR: Permission of Honors and IDH 1921H, enrolled in Accelerated Pre-med Program; or C.I. Students are organized in groups to discuss leadership principles and applications. Graded S/U. Occasional.

IDS 1921H BHC-HON 1(2,0)
Honors Symposium: Readings, lectures and discussions covering aspects of scholarship, artistic, and other creative efforts. Fall.

IDS 4030H BHC-HON 1(3,0)
Honors Windows To The World: PR: Permission of Honors and IDH 1921H, enrolled in Accelerated Pre-med Program; or C.I. Students will cultivate an active sense of the liberal arts and sciences as they prepare for prestigious scholarships and graduate school. Graded S/U. May be repeated for credit. Occasional.

IDS 1040C COS-COMM 2(1,1)
Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Arts & Sciences providing a foundation of leadership, scholarship, and service regarding disciplines in the college. Fall, Spring.

IDS 2041C COS-COS 2(1,1)
LEAD Colloquium: PR: Must have completed 2 of the following: a grade of "B" or better. IDS 1040C, GEB 1091C, HSC 1031C, EGN 1036C, EDG 1005, or EDF 1930C. Experiential leadership in an appropriate setting with the LEAD Scholars Program. Occasional.

IDS 3150 UGST-LIBERAL ST 3(3,0)
Foundations of Environmental Studies: PR: Junior standing, complete equivalent of UCF Science and Math GEP. An overview of the approaches taken by different disciplines to address regional, national, and global environmental issues. Spring.

IDS 3334 CAH-HIST 3(3,0)
Topics in Latino Studies: PR: ENC 1102. Multi-disciplinary course exploring various topics pertaining to Latinos in the U.S. Occasional.

IDS 3701C CAH-DIG 2(2,2)
Internet Software Design: PR: DIG 2000, COP 2500C, COP 3330 and a minimum grade of "B" (3.0) or better in DIG 3001. Software design for media-rich Internet applications in arts and humanities. User interface, client/server, n-tier architectures, scalability, optimization, streaming, interactive media objects for storytelling and e-commerce. Odd Fall, Even Spring.

IDS 4156 UGST-LIBERAL ST 3(3,0)
Solving Environmental Problems: PR: IDS 3150, ECP 4302, GIS 3043C, GIS 4301C and PUP 3023, or C.I. Capstone course in Environmental Studies focusing on how environmental dilemmas are addressed. Occasional.

IDS 4315 COS-POLS 3(3,0)
Global Perspectives: PR: Completion of general education requirements and junior standing or C.I. The historical and contemporary contexts of globalization. Spring.

IDS 4703 CAH-DIG 3(0,0)
Digital Media Project II: PR: DIG 4524L and a minimum grade of "B" (3.0) or better in DIG 3001. Continuation of IDS 4682. Odd Fall, Even Spring.

IDS 4728 CAH-DIG 3(3,0)
Unix for Graphics Production: PR: COP 3223 and DIG 3525 or C.I. Unix operating system for the management of complex graphical production processes in animation and film post-production. Occasional.

IDS 4786C CAH-DIG 4(3,3)

IDS 4935 COS-SOC 3(3,0)

IDS 5145 ECS-IEMS 3(3,2)
Interdisciplinary course in simulation: PR: Calculus, matrix algebra, probability & statistics, high level programming language. An interdisciplinary course on simulation with hands-on experience in discrete event modeling, continuous modeling & shared virtual world. May be repeated for credit. Occasional.

IDS 5717C CAH-IDS 3(2,2)
Introduction to Modeling and Simulation: PR: STA 2023 or equivalent. Introduction to the theory and practice of modeling and simulation with emphasis on multidisciplinary scientific underpinnings. Fall, Spring.

IDS 5719 CAH-IDS 3(3,0)
Quantitative Aspects of Modeling and Simulation: PR: MAC 2241 or equivalent. Introduction to matrix algebra and other discrete mathematics topics for modeling and simulation applications. Spring.

IDS 5915 CAH-PHIL 3(3,0)

IDS 5936 CAH-PHIL 3(3,0)
Topics in Cognitive Sciences: PR: Admission to graduate certificate in Cognitive Sciences or C.I. Theoretical issues and empirical studies in the cognitive sciences, including contemporary discussions of mind, brain, artificial intelligence, pathologies, and behavioral capacities. Fall.

INP 3004 COS-PSYCH 3(3,0)
Industrial/Organizational Psychology: PR: PSY 2012 or C.I. Psychological theories and principles applicable to problems in industrial organizations. Fall.

INP 3141C COS-PSYCH 1.3(0-3,9)
Advanced Applied Psychology: PR: PSY 2012 and C.I. Course will explore application of psychological knowledge to clinical, experimental, industrial, or educational settings. Supervised laboratory experience is required. May be repeated for credit. Graded S/U. Fall, Spring.
INP 3951  COS-PSYCH  3(0,10)  Industrial/Organizational Field Work:  PR: C.I. An opportunity for advanced undergraduate psychology majors to become involved in the application of I/O psychology to local organizations. Occasional.

INP 4252  COS-PSYCH  3(3,0)  Advanced Industrial Psychology:  PR: INP 3004 and PSY 3213C. Application of psychological principles to industrial problems. Topics include selection, training, performance appraisal, job design, and work environment. Occasional.

INP 4313  COS-PSYCH  3(3,0)  Organizational Psychology:  PR: INP 3004. Analysis of the psychological principles underlying individual and group behavior in an organizational setting. Topics include group dynamics, leadership and participation, intergroup behavior, and organization development. Occasional.

INP 5825  COS-PSYCH  3(3,0)  Human-computer Interface (HCl) design: A team approach: PR: Graduate status or senior standing or C.I. Interdisciplinary approach to human-computer interface design, including behavior, engineering, computer science, and instructional aspects. Tools and techniques for team development and the evaluation of software for usability. Occasional.

INR 2002  COS-POLS  3(3,0)  International Relations-Theory and Practice:  Analysis of the fundamental principles and factors affecting interstate relations and their application to contemporary global developments. Fall, Spring.

INR 3016  COS-POLS  3(3,0)  Global Political Issues:  PR: POS 2041 or C.I. Current global political topics from political development and income gap to gender issues and environmental challenges. Occasional.


INR 3253  COS-POLS  3(3,0)  International Politics of Africa:  PR: Junior standing or C.I. The broad structures and processes of international politics and foreign policy in Africa, with particular attention on U.S.- African relations. Occasional.

INR 4011  COS-POLS  3(3,0)  Politics of Globalization:  PR: INR 2002 or POS 2041 or C.I. Major political causes and consequences of globalization. Occasional.

INR 4030  COS-POLS  3(3,0)  Diplomacy:  PR: POS 2041, Junior standing or C.I. Concepts, theories, and methods of contemporary diplomacy: diplomatic processes in the international arena. Spring.

INR 4035  COS-POLS  3(3,0)  International Political Economy:  The international politics of regional and global economic interdependence, with emphasis upon North-South relations, the New International Economic Order, OPEC, and multinational corporations. Odd Spring.

INR 4054  COS-POLS  3(3,0)  Global Politics of Energy:  PR: POS 2041 or INR 2002 or C.I. International/national dimensions of global energy policy within developed and underdeveloped countries. Occasional.

INR 4060  COS-POLS  3(3,0)  Causes of War:  PR: POS 2041 or INR 2002 or C.I. The primary theoretical and empirical research explaining militarized interstate conflict. Fall.

INR 4064  COS-POLS  3(3,0)  Changing Nature of War:  PR: POS 2041 or C.I. The changing nature of war in light of significant changes in technology and international politics. Occasional.

INR 4074  COS-POLS  3(3,0)  Immigration Policy:  PR: POS 2041, Junior standing or C.I. Analysis of the complex subject of immigration, including U.S. and comparative immigration policy, illegal immigration, alien smuggling, and statelessness and their political/secure impact. Occasional.


INR 4102  COS-POLS  3(3,0)  American Foreign Policy:  Development of American foreign policy, with emphasis on the role and policies of the United States in the contemporary world. Odd Fall.

INR 4104  COS-POLS  3(3,0)  Topics and Cases in American Foreign Policy:  PR: POS 2041, Jr. standing or C.I. General or intensive analysis of problems or aspects of U.S. foreign policy. Issues may include September 11th, homeland security, counter-terrorism, policymaking and decision-making and intelligence. Odd Spring.

INR 4114  COS-POLS  3(3,0)  American Security Policy:  PR: POS 2041, Junior standing, or C.I. Study of the evolution of American security policy since World War II, including consideration of the social and political costs involved and means of control. Occasional.

INR 4115  COS-POLS  3(3,0)  Strategic Weapons and Arms Control:  Control of strategic weapons and their impact. Technological and policy aspects, including nuclear proliferation. Occasional.

INR 4224  COS-POLS  3(3,0)  Contemporary International Politics of Asia:  Examinations of the foreign policies of major and secondary powers in Asia, with particular attention to China and Japan. Occasional.

INR 4225  COS-POLS  3(3,0)  The Vietnam War:  Background of events leading to America's involvement in Indochina, the course of the Vietnam War, and the lessons which that war imparts. Odd Spring.

INR 4243  COS-POLS  3(3,0)  International Politics of Latin America:  Study of contemporary U.S.-Latin American relations, inter-American politics and organization, and the role of Latin America in the world. Occasional.

INR 4304  COS-POLS  3(3,0)  Issues in International Public Policy:  PR: POS 2041, Junior standing or C.I. Endogenous and exogenous variables, including policy analysis and decision-making, which influence select international public policy issues. Occasional.

INR 4335  COS-POLS  3(3,0)  Coercion in International Politics:  Examination of the role of coercive techniques among states in a nuclear age, ranging from nuclear strategy and deterrence to wars of national liberation and coups. Even Fall.

INR 4350  COS-POLS  3(3,0)  Global Environmental Politics:  PR: INR 2002 or POS 2041 or C.I. The unique environmental struggles and political issues that occur on the international and global levels. Fall.

INR 4351  COS-POLS  3(3,0)  International Environmental Law:  PR: Junior standing or C.I. Examination of global efforts to establish a treaty regime for environmental protection of earth's biosphere when challenged by national sovereignty and economic and cultural diversity. Odd Spring.

INR 4364  COS-POLS  3(3,0)  The Intelligence Community:  PR: POS 2041 or INR 2002 or CPO 3103 or C.I. The intelligence community structure in its relationship to foreign policy decision making, consideration of control and reliability questions, and issues of cooperation and coordination. Spring.

INR 4401  COS-POLS  3(3,0)  International Law I:  PR: Junior standing or C.I. The nature, evolution, and sources of international law and such subareas as recognition of states and governments, expropriation, nationality, and aliens. Occasional.

INR 4402  COS-POLS  3(3,0)  International Law II:  PR: INR 4401 or C.I. Examination of various sub-areas of international law, including maritime law, laws of the sea and seabed, air law, outer space, neutrality, and laws of war. Occasional.

INR 4404  COS-POLS  3(3,0)  Space Law:  Examination of the legal regime of outer space from both international and national perspectives, and the legal problems arising from human activity in space. Occasional.

INR 4502  COS-POLS  3(3,0)  International Organizations:  The study of the structure and workings of international organizations of cooperation, including the UN, its affiliates, and various regional organizations. Even Fall. Odd Spring.

INR 4603  COS-POLS  3(3,0)  International Relations Theory:  PR: INR 2002. Theoretical trends prevalent in the study of international relations, including realism, liberalism, Marxism, feminism, and post-modernism. Occasional.

UCF Courses and Descriptions

ISM 3011 BA-MIS 3(3,0)
Essentials of Management Information Systems: PR: Junior standing and business major or minor, CGS 2100C or CGS 1060C. Management and use of information technology in organizations. Fall, Spring.

ISM 3011H BA-MIS 3(3,0)
Honors Management Information Systems: PR: Junior standing and business major or minor, permission of Honors, CGS 2100C or CGS 1060C. Management and use of information technology in organizations. Occasional.

ISM 3013 BA-MIS 3(3,0)
Introduction to Information Systems Management: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. The Course introduces fundamental concepts and methods related to the management of information systems in organizations. Occasional.

ISM 3043 BA-MIS 3(3,0)
Society and Technology: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. Explores societal issues related to technology. Topics include technology ethics, privacy and security, and access inequities. Occasional.

ISM 3214 BA-MIS 3(3,0)
Personal Database Productivity: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. The use of databases and data products. Emphasizes modern tools for accessing organizational data, data mining and reporting. Occasional.

ISM 3253 BA-MIS 4(3,3)
MIS Techniques: PR: MIS minor or major, CGS 2100C. Computer use required of users and developers of management information systems. Fall, Spring.

ISM 3424 BA-MIS 3(3,0)
Computer-Aided Decision Making: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. Prepares the student to use computer-based tools to assist in making organizational decisions. Also includes a component on problem solving techniques. Occasional.

ISM 3501 BA-MIS 3(3,0)
Essentials of Electronic Commerce: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. Basic electronic commerce and technologies. Students are required to develop an e-commerce related business plan and build a prototype Website using a tool. Occasional.

ISM 3521 BA-MIS 3(3,0)
Business Applications: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. Advanced topics concerning the use of application software in organizations. Focus on integration of applications. Occasional.

ISM 3530 BA-MIS 3(3,0)
Quality & Productivity Management: PR: MIS major or minor, GES 3031 and MAN 3025. An examination of the principles and theories of quality and operations management in manufacturing and service organizations. Fall, Spring.

ISM 4090 BA-MIS 3(3,0)

ISM 4113 BA-MIS 3(3,0)

ISM 4114 BA-MIS 3(3,0)

ISM 4130 BA-MIS 3(3,0) Information Systems Implementation: PR: MIS major or minor, ISM 4113. Management of information systems development in business. Fall, Spring.

ISM 4133 BA-MIS 6(6,0)
Information Systems Analysis, Design, and Implementation: PR: MIS major or minor, ISM 3253, ISM 4212C. Same as ISM 4113 and ISM 4130. Comprehensive coverage of analysis, design, and Implementation of information systems. Occasional.

ISM 4153 BA-MIS 3(3,0)

ISM 4154 BA-MIS 3(3,0)


ISM 4220 BA-MIS 3(3,0)
Distributed Information Systems: PR: MIS major or minor, ISM 3253 and ISM 3011. Computer networking and communications. Managerial and technical dimensions of client/server and other modes of distributed and decentralized computing in business. Distributed database design and implementation. Fall, Spring.

ISM 4228 BA-MIS 3(3,0)
Advanced Distributed Information Systems: PR: MIS major or minor, ISM 4220. Provides students with in-depth, hands-on experience with networking hardware and software. Teamwork emphasized in acquiring a master of networking concepts. Occasional.

ISM 4238 BA-MIS 3(3,0)
Business Programming/OOP: PR: MIS major or minor, ISM 3253, ISM 4212C, or C. This course will provide an introduction to object-oriented programming (OOP) and object-oriented design (OOD). Occasional.

ISM 4300 BA-MIS 3(3,0)
Technology Management: PR: MIS major or minor, ISM 4131, MAN 3025, Junior Standing. The strategy and theory of the design, development, adoption, and management of new information technologies. Fall, Spring.

ISM 4323 BA-MIS 3(3,0)

ISM 4400 BA-MIS 3(3,0) Decision Support: PR: MIS major or minor, ISM 3011. Computer-based quantitative models and decision support systems in organizations. Fall, Spring.


ISM 4941 BA-MIS 3(0,3) Internship in MIS: PR: ISM 3253, ISM 4212C, and ISM 3011, consent of department chair. Provides student with supervised, management information system-related work experience in a sponsoring organization. See department for information. Fall, Spring.

ISM 5020 BA-MIS 1.5(1.5,0) MIS Foundations: PR: Acceptance to Graduate Study. Information systems are an integral part of modern organizations. This course provides an introduction to information systems from an organizational and managerial perspective. Occasional.

ISM 5021 BA-MIS 3(3,0) Introduction to Management Information Systems: PR: Acceptance into the graduate program. Designed to provide the student with the fundamentals of business data processing and management information systems used by organizations in a modern society. Occasional.

ISM 5123 BA-MIS 3(3,0) Concepts of Systems Analysis and Design: PR: Completion of ISM 5021 and Graduate Standing. Using a traditional life-cycle approach, the course introduces practical tools and techniques for organizational analysis and the subsequent design of an information system. Occasional.

ISM 5127 BA-MIS 3(3,0) Concepts of Database Design and Administration: PR: ISM 5020 and admittance to graduate study or MIS major or minor in term of graduation. Introduces concepts and methods related to the effective utilization of data by organizations. A database life-cycle approach is used to organize course content. Occasional.

ISM 5219 BA-MIS 3(3,0) Business Intelligence Systems: PR: All BS and MIS technical courses required for admission to the MSMIS program. Modern paradigms in data analysis. The detection of useful patterns and relationships in databases. Occasional.

ISM 5256 BA-MIS 3(3,0) Concepts of Business Programming: PR: Admission to Graduate Study. Principles of programming including program design, fundamental programming constructs, and database access. Occasional.

ISM 5315 BA-MIS 3(3,0) Information Systems Project Management: PR: Graduate standing or C. This course introduces students to the concept of project management including project scope, cost, time and quality. Occasional.
ITW 3100 CAH-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. Occasional.

ITW 3101 CAH-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. Occasional.

ITW 3600 CAH-LANG 3(3,0)

JOU 2100C COS-COMM 3(3,1)
News Reporting: PR: Com pending, or Journalism Major, or Magazine Journalism Minor and meet grammar proficiency requirement. Newsgathering and writing for the mass media. Fall, Spring.

JOU 2101C COS-COMM 3(3,1)
History of American Journalism: Development of mass media, leading innovators, and the media role in the nation’s history. Fall, Spring.

JOU 3100 COS-COMM 3(3,0)
Advanced Reporting: PR: Journalism major or Magazine Writing minor, meet Grammar Proficiency standard, and a minimum grade of “C” (2.0) in JOU 2100C. Advanced information-gathering and development of news writing skills. Fall, Spring. M&S fee: $15.00

JOU 3201 COS-COMM 3(3,0)
Editing I: PR: Journalism major or Magazine Journalism minor and meet grammar proficiency requirement. Editing copy, writing headlines, managing newsroom operations. Fall, Spring.

JOU 3202 COS-COMM 3(3,0)
Editing II: PR: Journalism major or Magazine Writing minor, a minimum grade of “C” (2.0) in JOU 3004, and a minimum grade of “C” (2.0) in JOU 2100C. Practical aspects of editing, Principles of design. Practice in editing and layout. Fall, Spring. M&S fee: $15.00

JOU 3313C COS-COMM 3(2,1)
Sports Reporting: PR: Journalism major and a minimum grade of “C” (2.0) in JOU 2100C. Covering sports for the print media; issues, principles, and practices. Occasional.

JOU 3510 COS-COMM 3(3,0)
Magazine Publishing: PR: Journalism major or Magazine Writing minor, and a minimum grade of “C” (2.0) in JOU 2100C. The magazine industry, emphasizing business operations and current topics. Spring.

JOU 4181 COS-COMM 3(3,0)
Public Affairs Reporting: PR: Journalism major, and a minimum grade of “C” (2.0) in both JOU 2100C and JOU 3 ___ C Metro Reporting. Reporting on city, county and state government. Fall, Spring.

JOU 4211C COS-COMM 3(2,1)
Informational Graphics: PR: JOU major and a minimum grade of “C” (2.0) in JOU 2100C. Use of boxes, charts and graphics in the print media. Occasional.

JOU 4223C COS-COMM 3(2,1)
Page Design: PR: Journalism major and JOU 3201 and JOU 3202 or VIC 3001. Designing newspaper pages, including stories, headlines, and other content. Occasional.

JOU 4224 COS-COMM 3(3,0)
Magazine Editing and Production: PR: Journalism major or Magazine Writing minor, and a minimum grade of “C” (2.0) in JOU 2100C. The magazine industry, including writing and editing skills, and editorial, business, and production requirements. Occasional.

JOU 4300 COS-COMM 3(3,0)
Feature Writing: PR: Journalism major or Magazine Writing minor. Writing reviews of movies, plays, television programs, concerts, books, and other cultural works. Occasional.

JOU 4308 COS-COMM 3(3,0)
Freelance Writing: PR: Journalism major or Magazine Writing minor. A study of the techniques and procedures of freelance writing, including the preparation of several manuscripts. Occasional.

JOU 4340C COS-COMM 3(1,3)
On-line Journalism I: PR: A minimum grade of “C” (2.0) in JOU 2100C, and PUR 3100. The development, impact and problems of using the Internet as a journalistic tool. Write and design news for the Web. Occasional.

JOU 4341C COS-COMM 3(1,3)
On-line Journalism II: PR: JOU 4340C. Study, design, and development of on-line journalism materials. Occasional. M&S fee: $15.00

JOU 4342C COS-COMM 3(2,1)

JOU 4700 COS-COMM 3(3,0)

JPN 1120 CAH-LANG 4(4,1)
Interpretations of the State of Israel, with emphasis on forces which involved in teaching, speaking, listening, writing, and. The emphasis is on accurate communication in Japanese. The culture of Japan will also be studied. Fall.

Advanced Japanese Conversation: PR: JPN 1211 or equivalent proficiency. Communication in conversational Japanese to enhance knowledge of the sound changes, speech functions and styles in verbal discourse. Occasional.


Classic Texts of Judaism: PR: ENC 1102. Scriptures, post-Biblical Rabbinic writings, Exegesis, Apocrypha, Qumran documents, Mishnah, Talmud, the Siddur, as well as Jewish mystical writings. Occasional.


Romantic Love in the Bible: PR: ENC 1102, Junior standing. The dimensions of romantic love in the Hebrew Bible, focusing on the depiction of human feelings of love and relationships; the nature of man-woman interactions in ancient Israel. Occasional.

Dead Sea Scrolls: PR: Junior standing or C.I. The Dead Sea Scrolls, their literary and historical context, and significance. Occasional.

Identity and Genre: PR: ENC 1102 or C.I. Jewish and Hebrew literature as related to the intellectual quest for Jewish identity and modernism in the 18th and 19th centuries. Occasional.
LA 4501 CAH-ENG 3(3,0)
History of the English Language: An overview of the history of the English language, including phonology, morphology, syntax, and semantics. Spring.

LAH 4213 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the historical and social movements of women in the Western world, with an emphasis on the role of women in political, economic, and social reform. Fall, Spring.

LAH 4214 CAH-HIST 3(3,0)
The Women’s Movement: Continuation of LAH 4213. Fall.

LAH 4215 CAH-HIST 3(3,0)
The Women’s Movement: An in-depth study of the women’s movement in the United States, focusing on the civil rights movement, the women’s liberation movement, and contemporary issues. Fall, Spring.

LAH 4216 CAH-HIST 3(3,0)
The Women’s Movement: An introduction to the women’s movement in the United States, focusing on the history, literature, and culture of women’s movements. Fall, Spring.

LAH 4217 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the civil rights movement, with an emphasis on the African-American women’s movement. Fall, Spring.

LAH 4218 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the women’s liberation movement, with an emphasis on the relationship between women and the environment. Fall, Spring.

LAH 4219 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the contemporary women’s movement, with an emphasis on the relationship between women and technology. Fall, Spring.

LAH 4220 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the women’s movement in other countries, with an emphasis on the relationship between women and religion. Fall, Spring.

LAH 4221 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the women’s movement in other countries, with an emphasis on the relationship between women and economics. Fall, Spring.

LAH 4222 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the women’s movement in other countries, with an emphasis on the relationship between women and politics. Fall, Spring.

LAH 4223 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the women’s movement in other countries, with an emphasis on the relationship between women and culture. Fall, Spring.

LAH 4224 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the women’s movement in other countries, with an emphasis on the relationship between women and politics. Fall, Spring.

LAH 4225 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the women’s movement in other countries, with an emphasis on the relationship between women and culture. Fall, Spring.

LAH 4226 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the women’s movement in other countries, with an emphasis on the relationship between women and economics. Fall, Spring.

LAH 4227 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the women’s movement in other countries, with an emphasis on the relationship between women and religion. Fall, Spring.

LAH 4228 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the women’s movement in other countries, with an emphasis on the relationship between women and politics. Fall, Spring.

LAH 4229 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the women’s movement in other countries, with an emphasis on the relationship between women and culture. Fall, Spring.

LAH 4230 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the women’s movement in other countries, with an emphasis on the relationship between women and economics. Fall, Spring.

LAH 4231 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the women’s movement in other countries, with an emphasis on the relationship between women and religion. Fall, Spring.

LAH 4232 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the women’s movement in other countries, with an emphasis on the relationship between women and politics. Fall, Spring.

LAH 4233 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the women’s movement in other countries, with an emphasis on the relationship between women and culture. Fall, Spring.

LAH 4234 CAH-HIST 3(3,0)
The Women’s Movement: An examination of the role of women in the women’s movement in other countries, with an emphasis on the relationship between women and economics. Fall, Spring.
LIT 3313H CAH-ENG 3(3,0) Honors Science Fiction Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. An investigation of science fiction as a literary form, together with selected readings. Honors content. Occasional.

LIT 3383 CAH-ENG 3(3,0) Women in Literature: PR: ENC 1102. Fiction, poetry, drama and non-fiction by selected women writers, such as Emily Dickinson, Jane Austen, George Eliot, Kate Chopin, Zora Neale Hurston, Toni Morrison, Adrienne Rich, Gwendolyn Brooks. Occasional.

LIT 3383H CAH-ENG 3(3,0) Honors Women in Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. Fiction, poetry, drama and non-fiction by selected women writers, such as Emily Dickinson, Jane Austen, George Eliot, Kate Chopin, Zora Neale Hurston, Toni Morrison, Adrienne Rich, Gwendolyn Brooks. Honors content. Occasional.

LIT 3394 CAH-ENG 3(3,0) Literature of AIDS: PR: ENC 1102. To familiarize students with the new genre of literature that has arisen related to AIDS. Essays, short stories, plays, poetry, diaries, and novels will be covered. Occasional.

LIT 3394H CAH-ENG 3(3,0) Honors Literature of AIDS: PR: Permission of Honors and ENC 1102H or equivalent credit. Literature related to AIDS. Essays, short stories, plays, poetry, diaries, and novels. Honors content. Occasional.

LIT 3482 CAH-ENG 3(3,0) Literature & Popular Culture: PR: ENC 1102. Analysis of media to determine popular values in the formation of popular cultural perceptions. Occasional.

LIT 3823 CAH-ENG 3(3,0) Hispanic Women Writers: PR: ENC 1102. Hispanic women writers in a variety of genres. May be repeated for credit. Occasional.

LIT 3905 CAH-ENG 3(3,0) Directed experience in Literature: PR: ENC 1102. C.I. Individualized topics of study and/or research in literature with personalized faculty direction. May be repeated for credit. Occasional.

LIT 3911H CAH-ENG 1(1,0) Research Methods — Honors: PR: Permission of Honors. Introduction to scholarship and practical research in literature and writing. Occasional.

LIT 4043 CAH-ENG 3(3,0) Modern Drama As Literature: PR: ENC 1102 and ENG 3014. A study of important plays, playwrights, themes, movements, and styles in modern American, British, and European drama. Occasional.

LIT 4184 CAH-ENG 3(3,0) Irish Literature: PR: ENC 1102 and ENG 3014. Study of literature written in Ireland, within the context of Irish history, politics, culture and colonial experience. Occasional.

LIT 4303 CAH-ENG 3(3,0) Post-World War II Fiction: PR: ENC 1102 and ENG 3014. An investigation of various modes of reality in the works of significant postmodernist world authors, crossing cultural boundaries. Occasional.

LIT 4374 CAH-ENG 3(3,0) Literature of the Bible: PR: ENC 1102 or ENG 3014 or C.I. Literary forms in the Bible — narrative, poetic, and dramatic — and their reflection in modern literature. Occasional.

LIT 4374H CAH-ENG 3(3,0) Honors Literature of the Bible: PR: Permission of Honors and ENC 1102H or equivalent credit. Literary forms in the Bible — narrative, poetic, and dramatic — and their reflection in modern literature. Honors content. Occasional.

LIT 4443 CAH-ENG 3(3,0) Literature of Science and Technology: PR: ENC 1102 and Junior Standing or C.I. Major works of non-fiction that address and describe the history, philosophy, politics, and new ideas in science and technology. Fall.

LIT 4554 CAH-ENG 3(3,0) Advanced Feminist Theories: PR: ENC 1102, WST 3015 or ENG 3014. An advanced exploration of feminist critical theories and practices. Occasional.

LIT 4937H CAH-ENG 3(3,0) English Honors Seminar: PR: ENG 3014 and permission of Honors. In-depth study of language and/or literature with an emphasis on creative and critical abilities. Occasional.

LIT 5028 CAH-ENG 3(3,0) Form and Theory of Short Story: PR: Graduate status or senior standing or C.I. Evolving forms and theories of short fiction and the implications of form and theory. Occasional.

LIT 5039 CAH-ENG 3(3,0) Studies in Contemporary Poetry: PR: Graduate status or senior standing or C.I. English language poetry from 1945 to the present. Emphasis will be on American poets, but others such as English or Australian will be included. Occasional.

LIT 5097 CAH-ENG 3(3,0) Studies in Contemporary Fiction: PR: Graduate status or 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. Occasional.

LIT 5250 CAH-ENG 3(3,0) The Victorian Age: Poetry: PR: Graduate status or senior standing or C.I. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, Hardy, the Rossettis, Emily Bronte, and others. Occasional.

LIT 5269 CAH-ENG 3(3,0) Nineteenth-Century Essays: PR: Graduate status or senior standing or C.I. English non-fiction prose of the 19th century. Occasional.

LIT 5309 CAH-ENG 3(3,0) Popular Culture and Media: PR: Graduate status or senior standing or C.I. Study of contemporary media and the literature of popular culture. Occasional.

LIT 5366 CAH-ENG 3(3,0) The Romantic Revolt (19th Century Literature): PR: Graduate status or senior standing or C.I. The romantic revolt in poetry and prose; English, American, and Continental literature from 1798 to 1862. Occasional.

LIT 5387 CAH-ENG 3(3,0) Captives, Housewives, and Coquettes: PR: Graduate status or senior standing or C.I. Course considers early American women's literature from 17th to 19th centuries. Occasional.

LIT 5389 CAH-ENG 3(3,0) Studies in Gender & Fiction Writing: PR: Graduate status or senior standing or C.I. Graduate study of gender's implications for teaching and practice of fiction writing. Occasional.
MAC 2147 COS-MATH 5(5,0)
Mathematics for Calculus: PR: Solid background in algebra or trigonometry, or C.I. For students with good mathematical backgrounds who do not want to go directly into calculus. Topics include matrices, determinants, permutations, combinations, sequences, series, induction, trigonometric functions. The "NC" grading policy applies to this course. Even Fall, Spring.

MAC 2233 COS-MATH 3(3,0)
Continuation of MAC 2311.

MAC 2253 COS-MATH 2233 or MAC 2311. The "NC" grading policy applies to this course.

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 2111. The "NC" grading policy applies to this course. Fall, Spring.

MAC 2241 COS-MATH 4(4,0)
Continuation of MAC 2311.

Calculus for Life Sciences: PR: MAC 1105. Discrete dynamical systems, derivatives and dynamics, applications of derivatives, integrals and their applications. For biology and others required to have one semester of calculus. The "NC" grading policy applies to this course. Occasional.

MAC 2252 COS-MATH 3(3,0)
Applied Calculus I: PR: MAC 1105 and MAC 1114 or C.I. Differential and integral calculus. An introduction to differential equations and Laplace Transforms. Applications to engineering technology. Not open to students with credit in MAC 2253 or MAC 2111. The "NC" grading policy applies to this course. Fall, Spring.

MAC 2254 COS-MATH 3(3,0)
Applied Calculus II: PR: MAC 2253 or C.I. Continuation of MAC 2253. Fall, Spring.

MAC 2311 COS-MATH 4(4,0)
Calculus with Analytic Geometry I: PR: MAC 1105 and MAC 1114 or C.I. The differential and integral calculus of algebraic and elementary transcendental functions with geometric and physical applications. Topics from analytic geometry include coordinate systems, vectors, lines, conic sections, transformations of coordinates, and polar coordinates. During the 2nd and 3rd semesters the topics also include sequences and series, Taylor series, and the differential and integral calculus for functions of several variables. The "NC" grading policy applies to this course. Fall, Spring.

MAC 2311H COS-MATH 4(4,0)
Calculus with Analytic Geometry I (Honors): PR: Permission of Honors. Differential and integral calculus, emphasizing understanding basic concepts and their applications. Students will complete projects on their own. For honors students from all disciplines. The "NC" grading policy applies to this course. Occasional.

MAC 2312 COS-MATH 4(4,0)
Calculus with Analytic Geometry II: PR: MAC 2311 or C.I. Continuation of MAC 2311. Fall, Spring.

MAC 2312H COS-MATH 4(4,0)

MAC 2313 COS-MATH 3(3,0)
Calculus with Analytic Geometry III: PR: MAC 2312 or C.I. Continuation of MAC 2312. Fall, Spring.

MAC 2313H COS-MATH 4(4,0)

MAC 3103H COS-MATH 3(3,0)

MAC 3204 COS-MATH 3(3,0)
Foundations of Discrete Math: PR: 2 years of high school algebra and 1 year of geometry or C.I. Basic mathematical logic, methods of proof in mathematics, and application to elementary discrete structure. Fall, Spring.

MAC 4203 COS-MATH 4(4,0)
Combinatorics and Graph Theory I: PR: MAC 2312, STA 2033, and MTH 3302. Counting principles, inclusion/exclusion principle, recurrence relations, generating functions, properties of graphs and digraphs, trees, path problems, coloring planar, colorability of matchings and coverings, applications. Fall.

MAC 5205 COS-MATH 3(3,0)
Combinatorics and Graph Theory II: PR: MAD 4203, graduate student or senior standing, or C.I. Polya's theory of counting; Latin squares and rectangles; block designs; cost theory; probabilistic methods; hypergraphs; applications. Odd Spring.

MAE 2801 ED-TP 4(3,1)
Elementary School Mathematics: PR: MAC 1105 or MGF 1106. Mathematics appropriate for the elementary school including the six basic sets of numbers, concepts, learning sequences, algorithms, problem-solving techniques, error patterns, number systems, and geometry. Fall, Spring.

MAE 4300 ED-CFCS 3(3,0)
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. Fall.

MAE 4326 ED-TP 3(3,1)
How Children Learn Mathematics: PR: MAE 2801 or C.I., and admission to Phase II. Instructional strategies, learning activities, the use of manipulatives, lesson planning, evaluation of mathematical learning, and diagnostic techniques. Fall, Spring.

MAE 4360 ED-TP 4(3,2)
Mathematics Instructional Analysis: PR: EDG 4323. Study of course objectives for the middle grades and high school curriculum and survey of methods and materials which have special application for teaching mathematics. Fall.

MAE 4634 ED-TP 3(2,1)

MAE 5318 ED-TP 3(3,0)
Current Methods in Elementary School Mathematics: PR: EDG 4323. Strategies of instruction of computation and concepts of number, geometry, and measurement; instructional materials. (Meets Elementary Education certification requirements.). Fall, Spring.

MAE 5327 ED-TP 3(3,0)
Teaching Middle School Mathematics: PR: EDG 6236 or C.I. Students will develop skills in planning and delivering mathematics instruction in grades 5-9. The use of technology, cooperative learning, ESL, and manipulatives is considered. Occasional.

MAE 5336 ED-TLP 3(3,0)
Current Methods in Secondary School Mathematics: PR: EDG 4323 or EDG 6236 or C.I. Required special methods course for mathematics 6-12 certification. Assessment, curriculum, technology, practical classroom ideas and activities. Occasional.

MAE 5935 COS-MATH 3(3,0)
Post-Secondary Mathematics: PR: Graduate status or senior standing or C.I. The course will focus on issues which are faced by teachers of collegiate mathematics. Topics will be selected from teaching issues, program issues, and other issues. Even Fall.

MAN 3025 BA-MAN 3(3,0)
Management of Organizations: PR: Junior standing and business major or minor, ACG 2071, ECO 2013, ECO 2023. Introduction to the theory and practice of managing formal organizations, including planning, organization theory, human behavior and control. Fall, Spring.

MAN 3025H BA-MAN 3(3,0)
Honors Management of Organizations: PR: Junior standing and business major or minor, permission of Honors, ECO 2013, ECO 2023 and ACG 2071. Introduction to the theory and practice of managing formal organizations, including planning, organization theory, human behavior and control. Applicable to honors students. Occasional.

MAN 3301 BA-MAN 3(3,0)
Management of Human Resources: PR: Management major. MAN 3025, Junior Standing. Provides students with a complete, comprehensive review of essential human resource management concepts and techniques. Applicable to all students of management. Fall, Spring.

MAN 4029 BA-MAN 3(3,0)

MAN 4101 BA-MAN 3(3,0)
Human Relations in Management: PR: Management major, MAN 3025. The study of individual, interpersonal, group, and intergroup problems in business organizations through the use of cases and experimental exercises. Fall, Spring.

MAN 4240 BA-MAN 3(3,0)

MAN 4310 BA-MAN 3(3,0)
Human Resource Management Issues: PR: Management major, Junior standing, MAN 3301. An application-oriented course to give students in the area experiences generally reserved for practitioners in the field of human resource management and labor relations. Odd Spring.

MAN 4320 BA-MAN 3(3,0)
Human Resources Recruitment and Selection: PR: Management major, MAN 3301. A concentrated investigation of the methods appropriate to the development, implementation and administration of the staffing process in contemporary organizations. Fall, Spring.

MAN 4330 BA-MAN 3(3,0)
Compensation Administration: PR: Management major, MAN 3301. Presentation of compensation theory and current pay related issues and their application to the design and administration of pay systems in large and small organizations. Fall, Odd Spring.
UCF Courses and Descriptions

MAN 4350 BA-MAN 3(3,0)
Training and Development: PR: Management major, MAN 3301. This course focuses on training and development activities as performed by organizational specialists. Theory, issues, practices and problems are discussed. Fall, Spring.

MAN 4401 BA-MAN 3(3,0)
Labor Relations Management: PR: Management major, Junior standing, MAN 3301. The impact of employee organizations on labor relations, current problems, conflicts and trends; the development of managerial approaches to achieve labor-management cooperation. Occasional.

MAN 4441 BA-MAN 3(3,0)

MAN 4521 BA-MAN 3(3,0)
Production Planning and Control: PR: Management major, ISM 3530. In depth study on long-range, intermediate-range and short-range planning and control methods as applied to a manufacturing organization. Occasional.

MAN 4600 BA-MAN 3(3,0)
International Management: PR: Management major, GEB 4361. The course examines issues involved in multinational management of business firms, with special emphasis on comparative management. Fall, Spring.

MAN 4701 BA-MAN 3(3,0)
Business Ethics and Society: PR: Management major, MAN 3025. This course applies the ethics dimension to current problems, conflicts and management activities in work organizations. Junior standing, MAN 3301. The impact of employee organizations on labor relations, current problems, conflicts and trends; the development of managerial approaches to achieve labor-management cooperation. Occasional.

MAN 4720 BA-MAN 3(3,0)
Strategic Management: PR: MAN 3025, MAR 3023, FIN 3403 and GEB 3031. Students assume a strategic view of organizations and integrate and apply material learned in their business courses to modern organizational problems and opportunities. Fall, Spring.

MAN 4720H BA-MAN 3(3,0)

MAN 4802 BA-MAN 3(3,0)
Entrepreneurship: PR: GEB 3031 or (MAN 3025 and MAR 3023). Study of entrepreneurship with emphasis on innovation, feasibility, planning, product and service concepts, and organizing financing and developing a new venture. Fall, Spring.

MAN 4804 BA-MAN 3(3,0)
Small Business Consulting: PR: 3.0 GPA and Business major in graduation term or C.I. Students are assigned teams and work with a local small business. Even Fall, Even Spring.

MAN 4941 BA-MAN 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. May be repeated for credit. Occasional.
MCB 3203  BCBS-M&M  3(3,0)
Pathogenic Microbiology: PR: MCB 3020 or C.I. Microorganisms producing disease in man and other ani-
mals; means of transmission; protection against disease. Spring.

MCB 3203L  BCBS-M&M  1(0,3)
Pathogenic Microbiology: CR: MCB 3203. Laboratory investigation of pathogenic microorganisms, with emphasis on isolation and identification of pathogenic microorgan-
isms. Spring. M&S fee: $45.00

MCB 3522H  BCBS-M&M  3(3,0)
Biotechnology and Genetic Engineering Seminar: PR: Permission of Honors. Principles, applications, laws, ethics and impact on society of biotechnology and genetic engi-
neering in agriculture, medicine, forestry, environment, computer/industrial chemical engineering and business admin-
istration. Occasional.

MCB 4114C  BCBS-M&M  4(3,3)
Determinative & Systemic Microbiology: PR: MCB 3020C, MCB 3203. Microbial classification taxonomic rules and nomenclature techniques for identification and interre-
lation of the phyla and taxa of bacteria. Occasional. M&S fee: $15.00

MCB 4312  BCBS-M&M  3(3,0)
Molecular Biotechnology: PR: MCB 3020C. Principles, techniques, and applications of Molecular Biotechnology in genetically modified food, cloning, gene therapy, and foren-
sics; transgenic animals; patents and regulations. Fall.

MCB 4414  BCBS-M&M  3(3,0)
Microbial Metabolism: PR: MCB 3020C, CR: BCH 4053. Interrelationship between cellular structure function and genetic traits in microorganisms. The interaction between microorganisms and their nutritional environment. Fall, Spring.

MCB 4503C  BCBS-M&M  3(3,0)

MCB 4603  BCBS-M&M  3(3,0)
Environmental Microbiology: PR: MCB 3020C. Interrelationships between the biological activities of microorganisms and their terrestrial and aquatic environ-
ments. Fall.

MCB 5205  BCBS-M&M  3(3,0)
Infectious Processes: PR: MCB 3020C or C.I. Discussion of current theories of the infectious process and the response of host cells and tissue to infection. Fall.

MCB 5225  BCBS-M&M  3(3,0)
Molecular Biology of Disease: PR: Graduate standing or C.I. An in-depth study of the molecular biological mecha-
nisms of diseases in experimental animal models and human populations. Occasional.

MCB 5505  BCBS-M&M  3(3,0)
Molecular Virology: PR: graduate standing or C.I. An in-
depth overview of the fundamental aspects and current con-
cerns in modern virology including HIV, tumor viruses, Prion disease, virus-host interaction, genome replication and pathogenesis. Occasional.

MCB 5527  BCBS-M&M  3(3,0)
Geneic Engineering and Biotechnology: PR: PCB 3522 and PCB 4524 or C.I. Principles of Genetic Engineering/Biotechnology in Bacteria, Yeast, Viral, Mammalian, Non-mammalian systems. Plants, including human gene therapy, novel pharmaceuticals, recombinant proteins will be discussed in depth. Fall.
MUC 3010C CAH-MUSIC 2(1,1)
Basic Leadership: Presents fundamental leadership concepts and doctrine; practice basic skills that underlie effective problem solving; examine the officer experience. Spring.

MUC 3105C CAH-MUSIC 2(1,1)
Composition II: PR: MUC 1101C and MUC 2104C. Continuation of Composition I. Competence determined by faculty jury. Fall, Spring.

MUC 3311 CAH-MUSIC 3(2,2)
MIDI Sequencing: PR: Keyboard ability and reading music or C.I. Utilization of synthesizers, drum machines, and computers with MIDI sequencing software to create music. Fall, Spring. M&S fee: $15.83

MUC 4106C CAH-MUSIC 2(1,1)
Composition IV: PR: MUC 1101C, MUC 2104C, MUC 3105C. Continuation of Composition III. Competence determined by faculty jury. Fall, Spring.

MUC 4313 CAH-MUSIC 3(3,0)

MUC 4441 CAH-MUSIC 3(3,0)

MUC 4612C CAH-MUSIC 3(2,2)

MUC 1291 CAH-MUSIC 1(0,1)
Classroom Instruments: Instruction in recorder and guitar, as it applies to classroom usage for music educators. Odd Fall.

MUC 2040 CAH-MUSIC 2(2,0)

MUC 2211 ED-CFCS 3(3,0)

MUC 2440 CAH-MUSIC 1(0,2)
String Techniques: PR: MUED major, junior standing or C.I. Class instruction in string playing and pedagogical techniques. Spring.

MUC 2450 CAH-MUSIC 1(1,0)
Woodwind Techniques I: PR: MUC 1101C, Junior standing or C.I. Class instruction in woodwind playing and pedagogical techniques. Fall.

MUC 2460 CAH-MUSIC 1(0,2)
Brass Techniques: PR: MUC 1101C, Junior standing or C.I. Class instruction in brass playing and pedagogical techniques. May be repeated for credit. Fall.

MUC 2470 CAH-MUSIC 1(0,2)
Percussion Techniques: PR: MUC 1101C, Junior standing or C.I. Class instruction in percussion playing and pedagogical techniques. May be repeated for credit. Spring. M&S fee: $35.00
MUN 3113 CAH-MUSIC 2(0,8)  
Marching Band: PR: Admission by audition. Preparation for appearance at football games and special occasions. May be repeated for credit. Fall. M&S fee: $36.54

MUN 3123 CAH-MUSIC 1(0,3)  
Concert Band: Open to all students with audition. Study and performance of music for large ensembles. May be repeated for credit. Fall, Spring. M&S fee: $10.00

MUN 3143 CAH-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. Fall, Spring. M&S fee: $10.00

MUN 3283 CAH-MUSIC 1(0,5)  
Symphony Orchestra: PR: Audition. Open to all students by audition. Rehearsal and performance of works from the symphonic repertoire. May be repeated for credit. Fall. Spring. M&S fee: $5.00

MUN 3313 CAH-MUSIC 1(3,0)  
University Choir: PR: Open to all students by audition. Study and performance of large ensemble music. Possible tours. May be repeated for credit. Fall, Spring. M&S fee: $5.00

MUN 3322 CAH-MUSIC 1(0,3)  
Women's Chorus: PR: Audition and C.I. Study and performance of music for women's voices. Open to all students. May be repeated for credit. Fall, Spring. M&S fee: $5.00

MUN 3343 CAH-MUSIC 1(0,3)  
Madrigal Singers: PR: C.I. Open to all students by audition. Extra rehearsals and Madrigal Dinners required. Tours. May be repeated for credit. Fall, Spring. M&S fee: $5.00

MUN 3423 CAH-MUSIC 1(0,2)  
Woodwind Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Fall, Spring. M&S fee: $5.00

MUN 3430 CAH-MUSIC 1(1,0)  
Trumpet Ensemble: PR: C.I. Rehearsal and performance of music for trumpet ensembles. May be repeated for credit. Occasional. M&S fee: $5.00

MUN 3433 CAH-MUSIC 1(0,2)  
Brass Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Fall, Spring. M&S fee: $5.00

MUN 3443 CAH-MUSIC 1(0,2)  
Percussion Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Fall, Spring. M&S fee: $35.00

MUN 3444 CAH-MUSIC 1(1,0)  
Mallet Ensemble: PR: C.I. Preparation and performance of music for mallet ensemble. May be repeated for credit. Fall. Odd Spring. M&S fee: $35.00

MUN 3453 CAH-MUSIC 1(0,3)  
Piano Ensemble: PR: Open to Music Majors or C.I. Study and performance of music for small ensembles. May be repeated for credit. Fall, Spring.

MUN 3483 CAH-MUSIC 1(0,2)  
String Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Fall, Spring. M&S fee: $5.00

MUN 3713 CAH-MUSIC 1(0,4)  
Jazz Lab: PR: C.I. Open to all students by audition. Study and performance of music for small ensembles. May be repeated for credit. Fall, Spring. M&S fee: $8.00

MUN 3714 CAH-MUSIC 1(0,2)  
Jazz Combo: PR: Junior standing and C.I. Rehearsal and performance of music for small jazz ensembles. May be repeated for credit. Fall, Spring. M&S fee: $5.00

MUN 3717 CAH-MUSIC 1(0,3)  
Jazz/Pop Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Occasional.

MUN 3723 CAH-MUSIC 1(0,3)  
Vocal Jazz Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Occasional.

MUN 3813 CAH-MUSIC 1(1,1)  
Steel Drum Ensemble: PR: C.I. Rehearsal and performance of music arranged for steel drum band. May be repeated for credit. Fall. Spring. M&S fee: $5.00

MUN 4476 CAH-MUSIC 1(0,2)  
Early Music Ensemble: PR: C.I. Study and performance of pre-classical music. May be repeated for credit. Fall, Spring. M&S fee: $5.00

MUP 2501C CAH-MUSIC 2(1,1)  
Opera Skills: PR: Open to all students. Integration of singing, acting, and movement in opera; explores basic stage movement, character preparation, and performance of opera arias. Fall.

MUP 3503 CAH-MUSIC 1(0,3)  
Opera Workshop: PR: MUP 2501C, or C.I., and audition. Study, preparation, and performance of opera literature. May be repeated for credit. 7 times. Occasional.

MUP 1010 CAH-MUSIC 0(9,2)  
Music Forum: A series of special musical events required of music majors. Includes lectures and recitals by faculty, students, and guest artists. Graded S/U. May be repeated for credit. Fall, Spring.

MUP 1201 CAH-MUSIC 1(1,0)  
European Diction: A survey of French, German and Italian diction for music educators. Even Fall.

MUP 1952C CAH-MUSIC 3(3,0)  
Music Post Production Techniques: PR: MUC 3311, MUC 4441, MUC 412C, MUP 465C. Audio and video film post production process with the video recording format. Audio and multi-media technologies will be used in the synchronization of SMPTE time code. Occasional.

MUP 4905 CAH-MUSIC 1-4(1-4)  
Directed Experience: PR: C.I. and Junior standing. Special topics of study and/or research as determined by student/faculty consultation. May be repeated for credit. Occasional.

MUP 4954 CAH-MUSIC 0(1,0)  
Recital Performance II: PR: Senior level applied music and C.I. Public recital of 45 minutes to demonstrate performance skills. Graded S/U. May repeat one time. Fall, Spring.

MUP 5365 CAH-MUSIC 3(3,0)  
Music and Technology: PR: Graduate status or senior standing, or C.I. The emergence of technology in music including MIDI, CD ROM, and the high-tech music classroom. Occasional.

MUT 1002 CAH-MUSIC 3(3,0)  

MUT 1004 CAH-MUSIC 3(3,0)  
Fundamentals of Music II: Basic music theory and reading music at the keyboard. Fall.
MUT 1242 CAH-MUSIC 1(0,2)  

MUT 2116 CAH-MUSIC 2(2,1)  

MUT 2117 CAH-MUSIC 2(2,1)  

MUT 2246 CAH-MUSIC 1(0,2)  
Ear Training and Sight Singing IIA:  PR: MUT 2142. Continuation of MUT 2142. Intended to be taken with MUT 2116. Fall.

MUT 2247 CAH-MUSIC 1(0,2)  
Ear Training and Sight Singing IIB:  PR: MUT 2246. Continuation of MUT 2246. Intended to be taken with MUT 2117. Spring.

MUT 2960 CAH-MUSIC 0(1,0)  

MUT 2961 CAH-MUSIC 0(1,0)  

MUT 2962 CAH-MUSIC 0(1,0)  

MUT 3170 CAH-MUSIC 2(1,1)  
Jazz Theory I:  PR: MUT 1111, MUT 1112, MUT 1241, MUT 1242. Examine traditional harmony, melody, and rhythm. Even Fall.

MUT 3171 CAH-MUSIC 2(1,1)  
Jazz Theory II:  PR: MUT 3170. Continuation of Jazz Theory I; examining jazz harmony, melody, and rhythm. Odd Spring.

MUT 3401 CAH-MUSIC 3(3,0)  
Counterpoint:  PR: MUT 2117. Discuss, analyze, and write counterpoint exercises. 18th, 19th, and 20th scores will be examined. Even Spring.

MUT 3571 CAH-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. Fall.

MUT 3622 CAH-MUSIC 3(3,0)  
Analytical Approaches to Musical Rhythm:  PR: MUT 2117 or equivalent or C.I. Contemporary, cognitive, hypermetric, and projective approaches to musical rhythm, rhythm in dance, performance, and non-Western music. Occasional.

MUT 3641 CAH-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. Odd Fall.

MUT 3642 CAH-MUSIC 2(0,2)  
Jazz Improvisation II:  PR: MUT 3641 Junior standing or C.I. A continuation of Jazz Improvisation I. Even Spring.

MUT 4031 CAH-MUSIC 1(1,0)  
Review of Music Theory:  PR: C.I. A comprehensive review of harmonic and analytic skills. May be repeated for credit. Occasional.

MUT 4344 CAH-MUSIC 1(1,0)  

MUT 5381 CAH-MUSIC 3(3,0)  
Arranging and Composing Music:  PR: Satisfactory placement tests in theory, sight-singing, and ear training, and graduate status or senior standing or C.I. Arranging and composing music for instrumental and vocal ensembles. Some emphasis on compositional techniques of the 20th century. Even Fall.

MVB 1211 CAH-MUSIC 1(0,1)  

MVB 1212 CAH-MUSIC 1(0,1)  
Secondary French Horn:  PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in French Horn. Intended for non-music majors. May be repeated for credit. Fall, Spring.

MVB 1213 CAH-MUSIC 1(0,1)  

MVB 1214 CAH-MUSIC 1(0,1)  

MVB 1215 CAH-MUSIC 1(0,1)  
Secondary Tuba:  PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in tuba. Intended for non-music majors. May be repeated for credit. Fall, Spring.

MVB 1411 CAH-MUSIC 2(1,1)  
Trumpet I:  PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVB 1412 CAH-MUSIC 2(1,1)  
French Horn I:  PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVB 1413 CAH-MUSIC 2(1,1)  
Trombone I:  PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVB 1414 CAH-MUSIC 2(1,1)  
Baritone I:  PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVB 1415 CAH-MUSIC 2(1,1)  
Tuba I:  PR: Major in music or consent of chair, audition. May be repeated for credit. Even Fall, Spring.

MVB 2421 CAH-MUSIC 2(1,1)  
Trumpet II:  PR: MUT 1411 and competence determined by faculty jury. Continuation of MUT 1411. May be repeated for credit. Fall, Spring.

MVB 2422 CAH-MUSIC 2(1,1)  
French Horn II:  PR: MVB 1412 and competence determined by faculty jury. Continuation of MVB 1412. May be repeated for credit. Fall, Spring.

MVB 2423 CAH-MUSIC 2(1,1)  
Trombone II:  PR: MVB 1413 and competence determined by faculty jury. Continuation of MVB 1413. May be repeated for credit. Fall, Spring.

MVB 2424 CAH-MUSIC 2(1,1)  
Baritone II:  PR: MVB 1414 and competence determined by faculty jury. Continuation of MVB 1414. May be repeated for credit. Fall, Spring.

MVB 2425 CAH-MUSIC 2(1,1)  
Tuba II:  PR: MVB 1415 and competence determined by faculty jury. Continuation of MVB 1415. May be repeated for credit. Fall, Spring.

MVB 3431 CAH-MUSIC 2(1,1)  
Jazz Improvisation II:  PR: MVB 2421 and competence determined by faculty jury. Continuation of MVB 2421. May be repeated for credit. Fall, Spring.

MVB 3432 CAH-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. Fall, Spring.

MVB 3433 CAH-MUSIC 2(1,1)  
Trombone III:  PR: MVB 2423 and competence determined by faculty jury. Continuation of MVB 2423. May be repeated for credit. Fall, Spring.

MVB 3434 CAH-MUSIC 2(1,1)  
Baritone III:  PR: MVB 2424 and competence determined by faculty jury. Continuation of MVB 2424. May be repeated for credit. Fall, Spring.

MVB 3435 CAH-MUSIC 2(1,1)  
Tuba III:  PR: MVB 2425 and competence determined by faculty jury. Continuation of MVB 2425. May be repeated for credit. Fall, Spring.

MVB 4441 CAH-MUSIC 2(1,1)  
Trumpet IV:  PR: MVB 3431 and competence determined by faculty jury. Continuation of MVB 3431. May be repeated for credit. Fall, Spring.

MVB 4442 CAH-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. Fall, Spring.

MVB 4443 CAH-MUSIC 2(1,1)  
Trombone IV:  PR: MVB 3433 and competence determined by faculty jury. Continuation of MVB 3433. May be repeated for credit. Fall, Spring.

MVB 4444 CAH-MUSIC 2(1,1)  
Baritone IV:  PR: MVB 3434 and competence determined by faculty jury. Continuation of MVB 3434. May be repeated for credit. Fall, Spring.

MVB 4445 CAH-MUSIC 2(1,1)  
Tuba IV:  PR: MVB 3435 and competence determined by faculty jury. Continuation of MVB 3435. May be repeated for credit. Fall, Spring.

MVB 4640 CAH-MUSIC 2(2,0)  
Brass Pedagogy:  PR: Music major and C.I. Methods and materials for teaching instruments in a small group or studio setting. Odd Spring.
MVB 5451 CAH-MUSIC 2(1,0)  
Trumpet V: PR: Graduate status or senior standing and C.I.  
May be repeated for credit. Fall, Spring.

MVB 5452 CAH-MUSIC 2(1,0)  
French Horn V: PR: Graduate status or senior standing and C.I.  
May be repeated for credit. Fall, Spring.

MVB 5453 CAH-MUSIC 2(1,0)  
Trombone V: PR: Graduate status or senior standing and C.I.  
May be repeated for credit. Fall, Spring.

MVB 5454 CAH-MUSIC 2(1,0)  
Baritone V: PR: Graduate status or senior standing and C.I.  
May be repeated for credit. Fall, Spring.

MVK 1111 CAH-MUSIC 1(0,2)  
Class Piano I:  I Class instruction for beginning piano students. Not open to music majors whose major performing medium is piano. Fall, Spring.

MVK 1211 CAH-MUSIC 1(0,1)  

MVK 1213 CAH-MUSIC 1(1,1)  

MVK 1411 CAH-MUSIC 2(1,1)  
Piano I: PR: Major in music or consent of chairperson; audition. May be repeated for credit. Fall, Spring.

MVK 1413 CAH-MUSIC 2(1,1)  
Organ I: PR: Major in music or consent of chairperson; audition. May be repeated for credit. Occasional.

MVK 1800 CAH-MUSIC 2(2,0)  
Keyboard Class I: Keyboard training for non-Music students with no prior keyboard training. Fall, Spring.

MVK 1801 CAH-MUSIC 2(2,0)  
Keyboard Class II: PR: MVK 1800. Continuation of Keyboard class I. Occasional.

MVK 2121 CAH-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. Fall, Spring.

MVK 2421 CAH-MUSIC 2(1,1)  
Piano II: PR: MVK 1411 and competence determined by faculty jury. Continuation of MVK 1411. May be repeated for credit. Fall, Spring.

MVK 2423 CAH-MUSIC 2(1,1)  
Organ II: PR: MVK 1413 and competence determined by faculty jury. Continuation of MVK 1413. May be repeated for credit. Occasional.

MVK 3131 CAH-MUSIC 1(0,2)  
Class Piano III: PR: MVK 1121 or C.I. Continuation of MVK 1121. Fall, Spring.

MVK 3431 CAH-MUSIC 2(1,1)  
Piano III: PR: MVK 2421 and competence determined by faculty jury. Continuation of MVK 2421. May be repeated for credit. Fall, Spring.

MVK 3433 CAH-MUSIC 2(1,1)  
Organ III: PR: MVK 2423 and competence determined by faculty jury. Continuation of MVK 2423. May be repeated for credit. Occasional.

MVK 4141 CAH-MUSIC 1(0,2)  
Class Piano IV: PR: MVK 1131 or C.I. Continuation of MVK 1131. Fall, Spring.

MVK 4441 CAH-MUSIC 2(1,1)  
Piano IV: PR: MVK 3431 and competence determined by faculty jury. Continuation of MVK 3431. May be repeated for credit. Fall, Spring.

MVP 1131 CAH-MUSIC 2(1,0)  
Piano V: PR: MVK 1121 or C.I. Continuation of MVK 1121. Fall, Spring.

MVP 2421 CAH-MUSIC 2(1,1)  
Percussion II: PR: MVP 1411 and competence determined by faculty jury. Continuation of MVP 1411. May be repeated for credit. Fall, Spring. M&S fee: $35.00

MVP 3431 CAH-MUSIC 2(1,1)  
Percussion III: PR: MVP 2421 and competence determined by faculty jury. Continuation of MVP 2421. May be repeated for credit. Fall, Spring. M&S fee: $35.00

MVP 3630 CAH-MUSIC 2(2,0)  
Percussion Pedagogy: PR: Major in music or consent of chairperson. C.I. Teaching methods and materials for percussion students and groups. Fall, Spring.

MVP 4441 CAH-MUSIC 2(1,1)  
Percussion IV: PR: MVP 3431 and competence determined by faculty jury. Continuation of MVP 3431. May be repeated for credit. Fall, Spring. M&S fee: $35.00

MVP 5451 CAH-MUSIC 2(1,0)  
Percussion V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVS 1211 CAH-MUSIC 1(0,1)  

MVS 1212 CAH-MUSIC 1(0,1)  

MVS 1213 CAH-MUSIC 1(0,1)  

MVS 1214 CAH-MUSIC 1(0,1)  

MVS 1216 CAH-MUSIC 1(0,1)  

MVS 1411 CAH-MUSIC 2(1,1)  
Violin I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 1412 CAH-MUSIC 2(1,1)  
Viola I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 1413 CAH-MUSIC 2(1,1)  
Cello I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 1414 CAH-MUSIC 2(1,1)  
Bass I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 1415 CAH-MUSIC 2(1,1)  
Harp I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 1416 CAH-MUSIC 2(1,1)  
Cello II: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 1417 CAH-MUSIC 2(1,1)  
Violin II: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 1418 CAH-MUSIC 2(1,1)  
Viola II: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 1419 CAH-MUSIC 2(1,1)  
Bass II: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 1420 CAH-MUSIC 2(1,1)  
Harp II: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 2121 CAH-MUSIC 1(0,1)  
Violin III: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 2122 CAH-MUSIC 1(0,1)  
Viola III: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 2123 CAH-MUSIC 1(0,1)  
Cello III: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

M&S fee: $35.00
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVS 1416</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Guitar I:  PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 2421</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Guitar II: PR: MVS 1412 and competence determined by faculty jury. Continuation of MVS 1411. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 2422</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Viola I:  PR: MVS 1412 and competence determined by faculty jury. Continuation of MVS 1412. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 2423</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Cello I:  PR: MVS 1413 and competence determined by faculty jury. Continuation of MVS 1413. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 2424</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Bass I:  PR: MVS 1414 and competence determined by faculty jury. Continuation of MVS 1414. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 2425</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Harp I:  PR: MVS 1415 and competence determined by faculty jury. Continuation of MVS 1415. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 2426</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Guitar III: PR: MVS 1416 and competence determined by faculty jury. Continuation of MVS 1416. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 3431</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Violin III: PR: MVS 2422 and competence determined by faculty jury. Continuation of MVS 2422. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 3432</td>
<td>CAH-MUSIC</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 3433</td>
<td>CAH-MUSIC</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 3434</td>
<td>CAH-MUSIC</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 3435</td>
<td>CAH-MUSIC</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 3436</td>
<td>CAH-MUSIC</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 4441</td>
<td>CAH-MUSIC</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 4442</td>
<td>CAH-MUSIC</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 4443</td>
<td>CAH-MUSIC</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 4444</td>
<td>CAH-MUSIC</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 4445</td>
<td>CAH-MUSIC</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 4446</td>
<td>CAH-MUSIC</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 5451</td>
<td>CAH-MUSIC</td>
<td>2(1,0)</td>
<td>Violin V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 5452</td>
<td>CAH-MUSIC</td>
<td>2(1,0)</td>
<td>Viola V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 5453</td>
<td>CAH-MUSIC</td>
<td>2(1,0)</td>
<td>Cello V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 5454</td>
<td>CAH-MUSIC</td>
<td>2(1,0)</td>
<td>Bass V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 5455</td>
<td>CAH-MUSIC</td>
<td>2(1,0)</td>
<td>Harp V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 5456</td>
<td>CAH-MUSIC</td>
<td>2(1,0)</td>
<td>Guitar V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVV 1111</td>
<td>CAH-MUSIC</td>
<td>1(0,1)</td>
<td>Class Voice: Class instruction in beginning voice. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVV 1411</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Voice I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVV 1873</td>
<td>CAH-MUSIC</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>MVV 2322</td>
<td>CAH-MUSIC</td>
<td>1(1,0)</td>
<td>Singing Broadway: PR: Concurrent enrollment in MVV 1411 or MVV 2421 or MVV 3431 and MVV 4441. Hearing and singing the American music called “Broadway.” Students learn singing techniques utilizing principles of the Italian “Bel Canto” school. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>MVV 4441</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Voice II: PR: MVS 3431 and competence determined by faculty jury. Continuation of MVV 3431. Major in music or consent of chair; audition. Private and class lessons. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVV 4444</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Voice III: PR: MVS 2421 and competence determined by faculty jury. Continuation of MVV 2421. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVV 4445</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Voice IV: PR: MVS 3431 and competence determined by faculty jury. Continuation of MVV 3431. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVV 4446</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Voice V: PR: MVS 2421 and competence determined by faculty jury. Continuation of MVV 2421. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVV 6460</td>
<td>CAH-MUSIC</td>
<td>1(0,0)</td>
<td>Voice Pedagogy: 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. Even Fall.</td>
</tr>
<tr>
<td>MVV 6461</td>
<td>CAH-MUSIC</td>
<td>1(0,0)</td>
<td>Voice Pedagogy II: PR: C.I. Continuation of MVV 6460. Intermediate to advanced levels. May be repeated for credit. Odd Spring.</td>
</tr>
<tr>
<td>MVV 5451</td>
<td>CAH-MUSIC</td>
<td>2(1,0)</td>
<td>Voice I: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1211</td>
<td>CAH-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Flute: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in flute. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1212</td>
<td>CAH-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Oboe: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in oboe. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1213</td>
<td>CAH-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Clarinet: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in clarinet. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1214</td>
<td>CAH-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Bassoon: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in bassoon. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1215</td>
<td>CAH-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Saxophone: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in saxophone. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1411</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Flute I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1412</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Oboe I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1413</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Clarinet I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.</td>
</tr>
</tbody>
</table>
MWW 1414 CAH-MUSIC 2(1,1)
Bassoon I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring. M&S fee: $20.00

MWW 1415 CAH-MUSIC 2(1,1)
Saxophone I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MWW 2421 CAH-MUSIC 2(1,1)
Flute I: PR: MWW 1411 and competence determined by faculty jury. Continuation of MWW 1411. May be repeated for credit. Fall, Spring.

MWW 2422 CAH-MUSIC 2(1,1)
Oboe II: PR: MWW 1412 and competence determined by faculty jury. Continuation of MWW 1412. May be repeated for credit. Fall, Spring.

MWW 2423 CAH-MUSIC 2(1,1)
Clarinet II: PR: MWW 1413 and competence determined by faculty jury. Continuation of MWW 1413. May be repeated for credit. Fall, Spring.

MWW 2424 CAH-MUSIC 2(1,1)
Bassoon II: PR: MWW 1414 and competence determined by faculty jury. Continuation of MWW 1414. May be repeated for credit. Fall, Spring. M&S fee: $20.00

MWW 2425 CAH-MUSIC 2(1,1)
Saxophone II: PR: MWW 1415 and competence determined by faculty jury. Continuation of MWW 1415. May be repeated for credit. Fall, Spring.

MWW 3431 CAH-MUSIC 2(1,1)
Flute III: PR: MWW 2421 and competence determined by faculty jury. Continuation of MWW 2421. May be repeated for credit. Fall, Spring.

MWW 3432 CAH-MUSIC 2(1,1)
Oboe III: PR: MWW 2422 and competence determined by faculty jury. Continuation of MWW 2422. May be repeated for credit. Fall, Spring.

MWW 3433 CAH-MUSIC 2(1,1)
Clarinet III: PR: MWW 2423 and competence determined by faculty jury. Continuation of MWW 2423. May be repeated for credit. Fall, Spring.

MWW 3434 CAH-MUSIC 2(1,1)
Bassoon III: PR: MWW 2424 and competence determined by faculty jury. Continuation of MWW 2424. May be repeated for credit. Fall, Spring.

MWW 3435 CAH-MUSIC 2(1,1)
Saxophone III: PR: MWW 2425 and competence determined by faculty jury. Continuation of MWW 2425. May be repeated for credit. Fall, Spring.

MWW 3630 CAH-MUSIC 2(2,0)
Woodwind Pedagogy: PR: C.I. Methods, materials for teaching individuals and woodwind ensembles. Even Fall.

MWW 4441 CAH-MUSIC 2(1,1)
Flute IV: PR: MWW 3431 and competence determined by faculty jury. Continuation of MWW 3431. May be repeated for credit. Fall, Spring.

MWW 4442 CAH-MUSIC 2(1,1)
Oboe IV: PR: MWW 3432 and competence determined by faculty jury. Continuation of MWW 3432. May be repeated for credit. Fall, Spring.

MWW 4443 CAH-MUSIC 2(1,1)
Clarinet IV: PR: MWW 3433 and competence determined by faculty jury. Continuation of MWW 3433. May be repeated for credit. Fall, Spring.

MWW 4444 CAH-MUSIC 2(1,1)
Bassoon IV: PR: MWW 3434 and competence determined by faculty jury. Continuation of MWW 3434. May be repeated for credit. Fall, Spring.

MWW 4445 CAH-MUSIC 2(1,1)
Saxophone IV: PR: MWW 3435 and competence determined by faculty jury. Continuation of MWW 3435. May be repeated for credit. Fall, Spring.

MWW 5451 CAH-MUSIC 2(1,0)
Flute V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MWW 5452 CAH-MUSIC 2(1,0)
Oboe V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MWW 5453 CAH-MUSIC 2(1,0)
Clarinet V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MWW 5454 CAH-MUSIC 2(1,0)
Bassoon V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MWW 5455 CAH-MUSIC 2(1,0)
Saxophone V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

NGR 5003 HPA-NURS 2(2,0)
Advanced Health Assessment and Diagnostic Reasoning: PR: or CR: NGR 5141; CR: NGR 5004L. Concepts and skills of advanced health assessment over the lifespan. Application of the diagnostic reasoning process through differential diagnoses. Fall, Spring.

NGR 5004L HPA-NURS 1(0,1)
Advanced Health Assessment and Diagnostic Reasoning (Lab): PR: or CR: NGR 5141; CR: NGR 5003. Application of concepts and skills for advanced health assessment and diagnostic reasoning over the lifespan. Graded S/U. Fall, Spring. M&S fee: $48.00

NGR 5090 HPA-NURS 3(3,0)
Urgent Care for the Advanced Practice Nurse: PR: NGR 6240 or C.I. Advanced practice evaluation and management of clients in urgent care settings. Occasional.

NGR 5141 HPA-NURS 3(3,0)
Pathophysiological Bases for Advanced Nursing Practice: PR: Baccalaureate Degree in Nursing. Critical examination of the physiological and pathophysiological mechanisms affecting individuals. Fall, Spring.

NGR 5159C HPA-NURS 3(2,1)
International Perspectives of Global Health: PR: Graduate standing or C.I. An analysis of global health in comparison with that of USA and other nation's health care systems. Occasional.

NGR 5252 HPA-NURS 3(3,0)
Psycho-Social Factors and Health Care Outcomes in the Elderly: PR: Post-baccalaureate or graduate status or C.I. Interdisciplinary perspective to examine the relationship between client characteristics, client health care provider interactions and health care outcomes in the elderly. Occasional.

NGR 5635 HPA-NURS 3(3,0)
Transdisciplinary and Community-Based Strategies of Health Professionals: PR: Graduate standing or C.I. A study of healthcare issues and strategies encountered by speech-language pathologists and nurse practitioners when promoting transdisciplinary and collaborative interactions. Occasional.

NGR 5637 HPA-NURS 3(3,0)
Advanced Practice Nursing in Rural Settings: PR: Graduate student in COHHP. Focus is on advance practice nursing in rural environments and delivery services within constraints of sparse resources and geographical remoteness. Occasional.

NGR 5638 HPA-NURS 3(3,0)
Health Disparities: Issues and Strategies: PR: Graduate standing. Explores disparities in access, utilization, services, outcomes, and status for different US populations: data, research, programmatic issues, and strategies to close the gaps. Occasional.

NGR 5714 HPA-NURS 3(3,0)
Clinical Teaching Strategies for Health Professional Education: PR: EDG 6236 or Teaching Strategies for Health Professionals, or C.I. Analysis of educational strategies with emphasis on developing techniques for teaching through technology resources. Spring.

NGR 5720 HPA-NURS 3(3,0)
Organizational Dynamics: PR: Baccalaureate Degree in Nursing or C.I. Analysis of organizational theories related to health care organizations and the use of leadership, communication and power to influence health care delivery and policy. Fall.

NGR 5744 HPA-NURS 1(1,0)
Health Care Systems, Policy and Health Professionals: PR: Admission to the MSN program or C.I. Examine social responses to health and illness, health care systems and policies and the role of advanced practice nurses. Fall, Spring.

NGR 5745 HPA-NURS 1(1,0)

NGR 5746 HPA-NURS 1(1,0)
Cultural, legal, ethical, and political issues of Advanced Practice Nursing: PR: Baccalaureate degree in Nursing. Examine legal, ethical and political issues related to advanced practice nursing. Fall, Spring.
### UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Hours</th>
<th>Corequisites</th>
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<tr>
<td>NGR 5791</td>
<td>HPA-NURS 3(3,0)</td>
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<td>Teaching Strategies for Health Professionals: PR: Bachelor's in nursing or consent of instructor. Analysis of internal and external controls on curriculum development for health professionals; application of selected teaching learning theories to classroom and clinical practice. Fall - NGR 5800. HPA-NURS 3(3,0)</td>
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<td>NGR 5801</td>
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<td>Research Methodology for Advanced Practice Nursing: PR: Undergraduate Research Methods and Statistics or CI; NGR 5800. Measurement strategies in nursing research, data planning and collection techniques, statistical data analysis and interpretation of results, research proposal development, outcomes research and statistical software. Fall, Spring.</td>
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<td>NGR 5871</td>
<td>HPA-NURS 3(3,0)</td>
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<td>Health Care Informatics: PR: Baccalaureate in health related field or CI. Use of information systems, clinical data management, communication strategies, and decision-making models. Fall.</td>
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<td>NGR 5880</td>
<td>HPA-NURS 3(3,0)</td>
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<td>Professional Ethics: PR: CI. Clinical cases and other professional ethical issues related to codes of conduct and research; application of ethical principles. May be repeated for credit. Occasional.</td>
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<td>NGR 5930</td>
<td>HPA-NURS 3(3,0)</td>
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<td>Issues in Health Care for the Homeless: PR: Pre-senior level baccalaureate status or admission to the graduate program; CI. Emphasis on socioeconomic, political, nursing, medical, health practice and research related to care of the homeless. Occasional.</td>
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<td>NGR 5931</td>
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<td>Interdisciplinary Care at End-of-Life: PR: Graduate Status or CI. Examination of interdisciplinary roles and strategies for enabling patients, families, and caregivers to approach end-of-life free from avoidable distress and suffering. Fall.</td>
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<tr>
<td>NUR 1015</td>
<td>HPA-NURS 3(3,0)</td>
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<td>Nursing as a Profession: Professional nursing roles in contemporary society covering a range of topics using discourse methodology that forms a foundation for nursing and health care. Fall.</td>
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<tr>
<td>NUR 3026L</td>
<td>HPA-NURS 1(0,2)</td>
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<td>Therapeutic Interventions for Health Professionals: PR: Admission to nursing program. Theoretical rationale and psychomotor development for therapeutic interventions in nursing practice. Graded S/U. Fall, Spring. M&amp;S fee: $45.00</td>
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<td>NUR 3065</td>
<td>HPA-NURS 2(2,0)</td>
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<td>Health Assessment: PR: or CR: NUR 3065L, and admission to the School of Nursing or CI. Concepts of health assessment of clients. Fall, Spring.</td>
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<td>NUR 3065L</td>
<td>HPA-NURS 1(0,1)</td>
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<td>Health Assessment Lab: CR: NUR 3065 and admission to the School of Nursing or CI. Clinical application of concepts and techniques of health assessment of clients. Fall, Spring. M&amp;S fee: $15.00</td>
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<td>NUR 3128</td>
<td>HPA-NURS 5(5,0)</td>
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<td>Pathophysiology and Pharmacology for Nursing Practice: PR: Admission to the School of Nursing. Concepts and nursing care applications of the pathophysiological basis of illness, and principles of pharmacology. Fall, Spring.</td>
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<td>NUR 3165</td>
<td>HPA-NURS 3(3,0)</td>
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<td>Nursing Research: PR: Admission to the BSN program; STA 2014C or 2023; For Basic program students: successful completion of the first semester, for RN to BSN students: NUR 3065 and RN status; or CI. Nursing research as a basis for nursing practice. Selected experiences in reviewing, analyzing, and interpreting nursing research for nursing practice. Fall, Spring.</td>
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<td>NUR 3167</td>
<td>HPA-NURS 1(2,0)</td>
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<td>Accelerated Nursing Research Seminar: PR: Admission to Accelerated BSN Option; previous undergraduate or graduate research course with approval from the SON, NUR 3235; NUR 3235L, NUR 3128. Accelerated study of systematic approaches to problematic situations in nursing. Selected experiences in investigating, analyzing, and interpreting nursing research and nursing issues. Spring.</td>
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<td>NUR 3235</td>
<td>HPA-NURS 5(5,0)</td>
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<td>Promoting Physical and Mental Health in the Community: PR: Completion of all Jr. level first semester courses or CI. Biopsychosocial nursing interventions in physical and mental health problems with emphasis on family-centered care in the community. Fall, Spring.</td>
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<td>NUR 3235L</td>
<td>HPA-NURS 4(0,4)</td>
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<td>Clinical Practice in Promoting Physical and Mental Health in the Community: PR: Completion to all Jr. level first semester courses or CI. Clinical application of biopsychosocial nursing interventions in physical &amp; mental health problems with emphasis on family-centered care in the community. M&amp;S fee: $45.00</td>
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<td>HPA-NURS 3(3,0)</td>
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<td>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. Fall, Spring.</td>
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<tr>
<td>NUR 3616L</td>
<td>HPA-NURS 3(0,3)</td>
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<td>Clinical Practice in Promoting Healthy Families: PR: Admission to the School of Nursing. Primary care clinical nursing practice in community settings with healthy families across the lifespan, including common health concerns related to childbearing, childrearing, adulthood and aging. Graded S/U. Fall, Spring. M&amp;S fee: $45.00</td>
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<td>NUR 3637</td>
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<td>Accelerated Promoting Healthy Families and Communities: PR: Admission to Accelerated Second Degree BSN Option; NUR 3065, NUR 3065L, NUR 3067. Application of concepts of family and community nursing as it relates to health across the lifespan including childbearing, childrearing, childhood, adulthood, and aging. Occasional.</td>
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<td>NUR 3795</td>
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<td>NUR 3805</td>
<td>HPA-NURS 3(3,0)</td>
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<td>Transitional Concepts in Nursing II: 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. Fall, Spring.</td>
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<td>NUR 3806</td>
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<td>Professional Socialization Seminar: PR: NUR 3065 and CI. Application of library utilization and professional writing skills, critical thinking and stress management principles to the beginning role of the professional nurse. Spring.</td>
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<td>NUR 3825</td>
<td>HPA-NURS 2(2,0)</td>
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<td>The Role of the Professional Nurse: PR: Admission to the School of Nursing. Examination of the role and function of the professional nurse, including professional standards, legal and practice issues. Fall, Spring.</td>
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<td>NUR 3826H</td>
<td>HPA-NURS 3(3,0)</td>
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<td>NUR 3936</td>
<td>HPA-NURS 3(2,2)</td>
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<td>International Perspectives of Nursing and Health Care: PR: Enrolled in School of Nursing or CI. Comparative analysis of professional nursing practice and health care system in the United States and selected countries. May be repeated for credit. Occasional.</td>
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<td>NUR 4084</td>
<td>HPA-NURS 3(3,0)</td>
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<td>Transitional Concepts in Nursing II: PR: NUR 3805, NUR 3065, NUR 3165. Enhancement of knowledge from basic Registered Nurse programs and continuation of study from NUR 3805. Fall, Spring.</td>
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<td>NUR 4196</td>
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<td>NUR 4267</td>
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<td>Introduction to Critical Care Nursing: PR: RN status or CI. Theories and principles related to the promotion, maintenance, and restoration of health in older adults in various settings. Occasional.</td>
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<td>NUR 4286</td>
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<td>Gerontologic Nursing: PR: NUR 4286 or RN status or CI. Theories and principles related to the promotion, maintenance, and restoration of health in older adults in various settings. Occasional.</td>
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<td>NUR 4525</td>
<td>HPA-NURS 2(2,0)</td>
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<td>Nursing Intervention in Mental Illness: PR: Completion of all Jr. level Fall and Spring courses or CI. Nursing application of theory, treatment modalities, and skills specific to clients with a primary diagnosis of mental illness. Fall, Spring.</td>
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<td>NUR 4525L</td>
<td>HPA-NURS 1(0,1)</td>
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<td>Clinical Practice with Mentality III Clients: PR: Completion of all Jr. level Fall and Spring courses or CI. Clinical practice in acute healthcare settings serving clients with a primary diagnosis of mental illness. Graded S/U. Fall, Spring. M&amp;S fee: $15.00</td>
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NUR 4636  HPA-NURS  3(3,0)  
Community as the Continuum of Care: PR: Completion of all Jr. level and Sr. Fall courses or C.I. Theories and principles of community health nursing and application to clinical practice within a community oriented framework for nursing care. Fall, Spring.

NUR 4636L  HPA-NURS  2(0,2)  
Clinical Community as the Continuum of Care: PR: Completion of all Jr. level and Sr. level Fall courses or C.I. Clinical application of theories and principles of community health nursing and application to clinical practice within a community oriented framework for nursing care. Graded S/U. Fall, Spring.

NUR 4639  HPA-NURS  2(2,0)  

NUR 4675  HPA-NURS  3(3,0)  
Issues in Rural Health Care: PR: NUR 3065 or Junior Status or C.I. The rural environment and appropriate health care services and programs for rural populations. Occasional.

NUR 4676  HPA-NURS  3(3,0)  
Health Care of Special Populations: Homeless: PR: Completion of junior level nursing courses or equivalent or C.I. Emphasis on socioeconomic, political, nursing, medical, and mental health practice and research related to care of the homeless. Occasional.

NUR 4745  HPA-NURS  4(4,0)  
Nursing Care of Clients with Acute and Life-threatening Illness across Lifespan: PR: Completion of all Jr. level Fall and Spring courses or C.I. Nursing care of individuals and families experiencing acute, unstable, or life-threatening health problems. Fall, Spring.

NUR 4745L  HPA-NURS  4(0,4)  
Clinical Practice in Caring for Clients with Acute Illness: PR: Completion of all Jr. level Fall and Spring courses or C.I. Clinical practice in acute health care settings with clients experiencing acute, unstable, surgical, or life threatening health conditions. Graded S/U. Fall, Spring. M&S fee: $45.00.

NUR 4812C  HPA-NURS  4(1,3)  
Practicum and Role Development for RN’s: PR: For students enrolled in the RN-BSN program only. PR: or CR: NUR 4536, NUR 4636L, NUR 4827, NUR 4857. Synthesis of theories and concepts incorporated throughout the curriculum applied to a selected area of nursing practice and directed toward professional role development. Graded S/U. Fall, Spring.

NUR 4827  HPA-NURS  3(3,0)  
Leadership and Management Principles: PR: NUR 3805, RN Status or C.I. Scientific theories and principles of leadership and management needed to function in leadership, management, and teaching roles in professional nursing. Application of decision making process. Fall, Spring.

NUR 4828  HPA-NURS  2(0,2)  

NUR 4829  HPA-NURS  3(3,0)  

NUR 4835  HPA-NURS  2(2,0)  
Role Transition: PR: Completion of all Jr. level and Sr. level Fall courses or C.I. Professional development and role transition of the baccalaureate graduate entering professional nursing practice. Spring.

NUR 4836  HPA-NURS  3(1,2)  
Professional Development Seminar in Nursing: PR: Acceptance to RN-MSN program track; Current Florida RN license; CR: NUR 3805. Exploration of the role of the professional nurse. Spring.

NUR 4837  HPA-NURS  3(3,0)  
Health Care Issues, Policy, and Economics: PR: Completion of all Jr. level and Sr. level Fall courses or C.I. Study of selected health care policy issues relevant to the financing, organization, and delivery of nursing services to populations in the community. Fall, Spring.

NUR 4838L  HPA-NURS  2(0,2)  

NUR 4905C  HPA-NURS  Variable  
Variable Nursing Independent Study: PR: NUR 4756C. An opportunity for in-depth study in an area of special interest to the student. Occasional.

NUR 4906  HPA-NURS  Variable  

NUR 4907H  HPA-NURS  3(3,0)  
Directed Reading/Research-Honors: PR: Permission of Honors and admission to major. The student will review and synthesize literature on a selected topic in preparation for the Honors Thesis or Project. Occasional.

NUR 4930  HPA-NURS  3(3,0)  
Health Issues in Minority and Special Populations: PR: Nursing Major/ Junior Level, or C.I. Identify and critically analyze structural and socio-cultural factors that influence the health of minorities and special populations. Occasional.

NUR 4934  HPA-NURS  3(3,0)  
Holistic Nursing: Explore lived experience of health-wellness, illness-disease focusing on mind-body-spirit, transpersonal healing and complementary interventions to maximize nursing care outcomes. Occasional.

NUR 4936  HPA-NURS  3(3,0)  
Women’s Health Issues: PR: ENC 1102, Junior standing, or C.I. Factors and conditions impacting the health of women. May be repeated for credit. Fall.

NUR 4942  HPA-NURS  3(0,9)  
Selected Nursing Practicum: PR: NUR 4756C and 4756L. An opportunity for an in-depth clinical study in an area of special interest to the student. Graded S/U. Occasional.

NUR 4945L  HPA-NURS  4(0,4)  
Nursing Practicum: PR: Admission to the BSN program; STA 2042 or 2023; for Basic program successful completion of the first three semesters; for RN to BSN students; NUR 3805 and RN status or C.I. Designed to enhance student’s knowledge and expertise in an area of nursing practice chosen by the student and school of nursing faculty. Graded S/U. Spring.

NUR 4971H  HPA-NURS  3(3,0)  
The Thesis or Project Works-Honors: PR: Permission of Honors. This course provides students with faculty mentoring through the process of writing and defending the Honors Thesis or Project. Occasional.

OCE 3008  COS-BIOL  3(3,0)  

OCE 3490  OPT-OPT  3(3,0)  
Nanophotonics: PR: PHY 2049 or C/I. Optical/photonic processes on nano scale and interactions with elements of physics & engineering. Occasional.

OCE 5041  OPT-OPT  3(3,0)  
Introduction to Wave Optics: PR: EEL 4440 or PHY 4424 or C.I. Electromagnetic foundation of light waves as applied to reflection, diffraction, interference, polarization, coherence, and guided waves. Occasional.

OCE 5050  OPT-OPT  3(0,3)  
Fundamentals and Applications of Photonics: PR: Graduate standing or C.I. Introduction to optics and photonics emphasizing the concepts governing applications of current interest for science and engineering senior and first year graduate students and working scientists and engineers. Occasional.

OCE 5051L  OPT-OPT  3(1,4)  
Opto-Electronics Laboratory: PR: EEL 4440 or OSE 5041 or C.I. Study of laboratory techniques for optical measurements and performance of measurements on electro-optic devices to determine operational characteristics. Occasional.

OCE 5111  OPT-OPT  3(3,0)  
Optical Wave Propagation: PR: Graduate standing or C.I. Optical propagation of light waves as applied to isotropic, anisotropic, and inhomogeneous media, guided waves and Gaussian beams. Odd Fall, Even Spring.

OCE 5115  COS-PHYS  3(3,0)  
Interference and Diffraction: PR: Graduate status or senior standing, or C.I. Interference of light, optical interferometry, Fraunhofer and Fresnel scalar diffraction, diffraction gratings, temporal coherence, spatial coherence, and partial coherence. Fall, Odd Spring.

OCE 5143  OPT-OPT  3(3,0)  

OCE 5203  OPT-OPT  3(3,0)  
OSE 5234L
Applied Optics Laboratory: PR: Graduate standing or C.I. Laboratory Techniques for observing optical phenomena and quantitative experimental study of geometrical optics, optical interference, diffraction, and image processing. Odd Spring.

OSE 5312
Fundamentals of Optical Science: PR: Graduate standing or C.I. Microwave theory of absorption, dispersion, and refraction of materials; wave propagation, introduction to lasers and nonlinear optics. Even Fall; Odd Spring.

OSE 5313
Materials for Optical Systems: PR: Graduate standing or C.I. Course will review key attributes of optical materials that allow them to be used in a range of applications, devices and components in optical systems. Occasional.

OSE 5414
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. Even Fall.

OSE 5421
Integrated Optics: PR: Graduate standing or C.I. The propagation and loss characteristics in dielectric optic waveguides, fundamental concepts of both integrated and fiber optic devices, numerical modeling of complex integrated optical components. Odd Spring.

OSE 5511
Laser Principles: PR: PHY 3101, MAP 2302, PHY 4424, graduate status or senior standing, or C.I. Classical introduction to the basic principles of laser gain media, properties of resonators and modes, description of specific laser systems. Occasional.

OSE 5630C
Thin Film Optics: PR: PHY 4424 or EEL 4440 and OSE 5043 or OSE 5533C. Principles of thin film optics and its applications in optical, electro-optical, and laser systems. Occasional.

PAD 3003

PAD 3040
Ethics and Values in Public Administration: PR: Junior standing or C.I. Ethical dimensions of public administration. Develops the awareness, skills, and value framework to act ethically. Occasional.

PAD 3330
Urban and Regional Planning: PR: PAD 3003 or CI. Planning topics such as land-use, and comprehensive and urban planning as they relate to the physical aspects of the natural and human environment. Fall, Spring.

PAD 4034
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. Fall, Spring.

PAD 4104
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. Fall, Spring.

PAD 4110
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. Fall.

PAD 4131
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. Occasional.

PAD 4144
Non-Profit Organizations: PR: PAD 3003 or C.I. The operations of non profit organizations, including working with board of directors, volunteer services, fund-raising and grantmanship, financial management and marketing. Fall, Spring.

PAD 4147
Resource Development in the Nonprofit Sector: PR: Junior status or C.I. Examination of the development and management of human resources and financial resource development in nonprofit organizations is discussed. Fall.

PAD 4148
Volunteer Management: PR: Junior status or C.I. Examination of recruitment, selection, training and management of volunteers in nonprofit organizations and the application of management theory. Spring.

PAD 4153
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. Fall.

PAD 4204
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. Fall, Spring.

PAD 4223
Public Budgeting: Skills and Techniques: PR: PAD 4204 or C.I. Analytical skills and administrative techniques employed by public budget analysis, focusing on the process of generating and using information. Occasional.

PAD 4253
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. Fall.

PAD 4325
Program Evaluation for Public and Non-Profit Organizations: PR: PAD 3003 or C.I. To develop an understanding of program evaluation and to apply the process by developing a program evaluation for a program. Spring.

PAD 4331
Land Use and Planning: PR: Pad 3330 or C.I. The study of land use and planning to include zoning variances, non-conformities, development agreements, subdivision controls, redevelopment and sprawl. Fall.

PAD 4334
Urban Design: CR: PAD 3330 or C.I. Theories and concepts of the physical, cultural, social and financial factors associated with urban design. Spring.

PAD 4351
Issues in Environmental Program Management: CR: PAD 3330. The study of environmental policy making processes, programs, and problems through lectures, field study, and research projects. Spring.

PAD 4390
Hazard Mitigation and Preparedness: PR: PR or CR: PAD 4392. Specialized knowledge and skills necessary to develop a proactive hazard mitigation plan to reduce the effects of natural and technological disasters. Fall.

PAD 4392
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. Fall.

PAD 4395
Disaster Response and Recovery: PR: PR or CR: PAD 4392. Individual, group, organizations and community behavior and recovery from disasters. Service delivery strategies are highlighted and complex dynamics of the recovery process are emphasized. Spring.

PAD 4414
Public Personnel Administration: The history, operating components, structural characteristics, and increasing impact of laws and related sanctions on personnel practices of public agencies. Fall, Spring.

PAD 4446
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. Occasional.

PAD 4461
Reengineering Government: PR: PAD 3003. Acquaint undergraduate students with the latest thinking on improving the effectiveness and efficiency of public organizations via reengineering. Occasional.

PAD 4616
Privatization: PR: PAD 3003 or C.I. Analysis of the process of privatizing existing governmental services, including: privatization decision, creation of RFP or ITB, contract award and contract management. Occasional.

PAD 4712
Information Systems for Public Managers and Planners: PR: PAD 3330 or C.I. Knowledge and skills concerning information technologies important for planners and public managers, including use of GIS to manipulate and analyze spatial data. Spring.

PAD 4720
Survey Research in Public Administration: Introduction to the concepts, design, methodology, computer applications, and data analysis in applied research in the public sector. Fall, Spring.

PAD 4803
Issues in Urban Administration: CR: PAD 3330 or C.I. To provide students with an understanding of public policy and administrative responses to socioeconomic problems within the urban context. Occasional.

PAD 4941
Public Administration Internship: PR: C.I. Internship in municipal, county, state, or federal government, including assignments in such fields as personnel, planning, budget, and fiscal, procurement, and public safety. Graded SU. Occasional.
PAD 4948 HPA-PUB 3(0,3) American Humanities Internship: PR: Enrollment in American Humanities AH Certification Program, completion of 2 AH restricted course electives and approval of AH Campus Director. Supervised internship to demonstrate AH identified competencies for students in American Humanities certification program. Requires minimum of 300 hours placement in nonprofit human services organization. May be repeated for credit. Fall, Spring.

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. Occasional.

PAD 5142 HPA-PUB 3(3,0) Nonprofit Organizations: PR: Admission to certificate program or C.I. Overview of nonprofit management, including history, governance structures, criteria used to establish nonprofit status, range of organizations, and application of management theory. Fall, Spring.

PAD 5145 HPA-PUB 3(3,0) Volunteerism in Nonprofit Management: PR: Admission to certificate program or C.I. Human resource development in nonprofit organizations, including board selection, development and leadership, volunteer recruitment, training, retention and theories of motivation, leadership, ethical issues. Fall, Spring.

PAD 5146 HPA-PUB 3(3,0) Nonprofit Resource Development: PR: Post-bac status or C.I. Examines human resource development and financial resource development in nonprofit organizations including managing development and management issues. Fall, Spring.

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. Fall.

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. Fall.

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. Spring.

PAD 5356 HPA-PUB 3(3,0) Managing Community and Economic Development: PR: graduate standing or C.I. Overview of economic development activities focusing on policy and managerial issues at the local level. Spring.

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. Occasional.

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. Occasional.

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. Occasional.

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. Occasional.

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. Fall, Spring.

PAB 2102 HPA-HPA 2(2,0) Public Affairs Careers: Introduction and examination of public affairs programs of study and career opportunities that will prepare students for future careers. Fall.


PAB 3931 HPA-HPA 1(1,0) American Humanities Human Service Workshop: PR: American Humanities minor, junior standing and ENC 1102, or C.I. Designed as forum for exchange between students and professional nonprofit personnel on various leadership and management issues. American Humanities student association activities are included. May be repeated for credit. Fall, Spring.

PCB 3023 COS-BIOL 3(3,0) Molecular Cell Biology: PR: BSC 2010C and CHM 2210, or C.I. Molecular structure and function of eukaryotic organelles. Transcription, RNA processing, translation and post translation targeting and modification of gene products. Fall, Odd Spring.

PCB 3024L COS-BIOL 1(0,3) Principles of Ecology Laboratory: PR or CR: PCB 3023. Critical thinking, technical skills, and integration of biochemical, molecular, and microscopic experimental approaches to understanding cell structure and function. Occasional.

PCB 3044 COS-BIOL 3(3,0) Principles of Ecology: PR: BSC 2010C, BSC 2011C and CHM 2045C, or C.I. Elements of ecosystems, biogeochemical cycling, environmental factor interactions, population dynamics, and community development. Fall.

PCB 3044L COS-BIOL 1(0,3) Principles of Ecology Laboratory: PR or CR: PCB 3044 or C.I. Field and laboratory investigations of natural ecosystems, with emphasis on current methodology in ecology. Fall. M&S fee: $15.00

PCB 3063 COS-BIOL 3(3,0) Genetics: PR: BSC 2010C, and CHM 2046, or C.I. Basic principles of heredity as applied to prokaryotes and eukaryotes. Fall, Spring.

PCB 3063H COS-BIOL 3(3,0) Honors Genetics: PR: BSC 2010C and CHM 2046, or C.I., and consent of Honors. Basic principles of heredity as applied to prokaryotes and eukaryotes with honors content. Occasional.

PCB 3063L COS-BIOL 1(0,3) Genetics Laboratory: PR: or CR: PCB 3063 or C.I. Introduction to laboratory techniques of genetics. Fall, Spring. M&S fee: $28.00

PCB 3233 BCBS-M&M 3(3,0) Immunology: PR: BSC 2010C. Basic principles of immune reactions, antigen antibody interactions, cell mediated immunity, tumor immunity, and immuno therapy. Fall.

PCB 3233L BCBS-M&M 1(0,3) Immunology Laboratory: CR: PCB 3233. Introduction to laboratory techniques in immunology. Fall, Spring. M&S fee: $20.00


PCB 3355C COS-BIOL 2(1,1) Tropical Marine Biology: PR: BSC 2010C and BSC 2011C or C.I. Intensive, one week field course at an institute of marine science. Diving/snorkeling will be used extensively to study organisms on pristine coral reefs. Occasional.

PCB 3442 COS-BIOL 3(3,0) Florida Aquatic Ecology: PR: BSC 2010C and BSC 2011C. An introduction to aquatic ecology of Florida with emphasis on ponds, lakes, streams, and rivers. Occasional.

PCB 3522 BCBS-M&M 3(3,0) Molecular Biology I: PR: CHM 2211 and MCB 3020C or C.I. The general principles governing the structure and function of both procaryotic and eucaryotic genes. Fall, Spring.

PCB 3703C BCBS-M&M 4(3,3) Human Physiology: PR: BSC 2010C, CHM 2032 or CHM 2045C. The physiology and interrelationships of organ systems of the human body. Fall. Spring. M&S fee: $35.00


PCB 4239 BCBS-M&M 3(3,0) Molecular Immunology: PR: PCB 3522. Advanced understanding of the workings of the immune system, correlating cellular and molecular mechanisms with clinical cases. Spring.

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PCB 4303C  COS-BIOL  4(3,4)

PCB 4353  COS-BIOL  3(3,0)
Florida Natural History: PR: BSC 2010C and BSC 2011C, or C.I. Florida's ecology, past and present flora and fauna, and naturalists who visited the state. Occasional.

PCB 4514  COS-BIOL  3(3,0)
Genetics II: PR: PCB 3063. Advanced topics in Genetics, including extra-nuclear inheritance, epigenesis, gene and chromosome mutation, genetics of development and behavior, and advanced genetic analytical techniques. Occasional.

PCB 4524  BCBS-M&M  3(3,0)

PCB 4524H  BCBS-M&M  3(3,0)
Molecular Biology II-Honors: PR: Permission of Honors and PCB 3522. Same as PCB 4524 with honors level content. Spring.

PCB 4529  BCBS-M&M  3(3,0)

PCB 4683  COS-BIOL  4(4,0)
Population Biology and Evolution: PR: PCB 3044 and PCB 3063 or equivalents. Demographic and genetic structure of populations and their relationship to speciation, adaptation, and macroevolutionary processes in plants and animals. Fall, Spring.

PCB 4683L  COS-BIOL  1(0,2)
Population Biology and Evolution Lab: PR: or CR: PCB 4683. Reading, problem solving and discussion on current topics in evolutionary biology. Fall, Spring. M&S fee: $10.00

PCB 4723  COS-BIOL  4(4,0)
Animal Physiology: PR: PCB 3023 or C.I. Functions of body processes occurring in animals, with emphasis on vertebrate physiology. Fall.

PCB 4805  BCBS-M&M  3(3,0)
Endocrinology: PR: PCB 3703C or equivalent; CHM 2211. Mechanisms of action of hormones; interrelationship between the nervous and endocrine systems. Occasional.

PCB 5045C  COS-BIOL  4(3,2)
Conservation Biology: PR: PCB 3044 and PCB 3063 or C.I. Scientific basis of conservation; conservation of ecosystems, populations, exploited species, and endangered species. Weekend field trips are required. Occasional. M&S fee: $15.00

PCB 5048C  COS-BIOL  4(2,4)
Restoration Ecology: PR: PCB 3044, BSC 4312C, or graduate standing or C.I. General principles of assisting recovery of degraded, damaged or destroyed ecosystems. Occasional.

PCB 5107C  COS-BIOL  4(3,2)
Advanced Cell Biology: PR: PCB 3063 and PCB 3023, graduate status or senior standing, or C.I. Review of selected topics in cell biology with emphasis on current research in areas of membrane structure, protein targeting, cytoskeleton, signalling and cell cycle. Occasional. M&S fee: $15.00

PCB 5108  COS-BIOL  4(4,0)
Concepts in Plant Cell Biology: PR: PCB 3023 and PCB 3063 or graduate standing or C.I. Plant cell biology, including cytoskeletal dynamics, cell signaling, cell cycle regulation, protein targeting and organelle structure and function. Spring.

PCB 5238  BCBS-M&M  3(3,0)
Immunobiology: PR: PCB 3233. 4229. Advanced topics in immune system dysregulation with special emphasis on innate immunity. Spring.

PCB 5239  BCBS-M&M  3(3,0)
Tumor Biology: PR: PCB 4524. A course designed to provide an introduction and broad overview of the current knowledge and research in the field of cancer biology. Occasional.

PCB 5256C  COS-BIOL  4(3,2)
Advanced Developmental Biology: PR: PCB 3063 and ZOO 4603C or equivalent, graduate status or senior standing or C.I. Lectures and literature review of emerging areas in plant and animal developmental biology. Even Fall. M&S fee: $15.00

PCB 5275  BCBS-M&M  3(3,0)
Signal Transduction Mechanisms: PR: PCB 3522 and PCB 4524. A course emphasizing various signal transduction cascades used in mammalian cells to control growth and differentiation. Discussion of original research papers will occur. Occasional.

PCB 5326C  COS-BIOL  5(3,2)
Ecosystems of Florida: PR: PCB 3044, PCB 3044L or equivalent, and graduate status or senior standing or C.I. Ecosystems of Florida will be discussed to include geography, geology, climate, energetics, nutrient cycling, community structure and conservation. Occasional. M&S fee: $15.00

PCB 5328C  COS-BIOL  4(3,2)
Landscape Ecology: PR: PCB 3044, STA 2023, graduate status or senior standing, or C.I. Influence of spatial heterogeneity on ecological processes. Emphasizes quantitative methods (e.g., GIS, remote sensing and modeling) to characterize landscape patterns and dynamics. Occasional. M&S fee: $15.00

PCB 5435C  COS-BIOL  4(2,6)
Marine Ecology of Florida: PR: BSC 4312C, graduate status or senior standing, or C.I. Survey of experimental methods used in the study of marine communities in central and southern Florida, combining field manipulation and readings from primary literature. Odd Spring. M&S fee: $45.00

PCB 5480C  COS-BIOL  4(3,2)
Quantitative Conservation Biology: PR: MAC 2311, PCB 3044, STA 2044 or C.I. Current methods of data analysis and modeling to evaluate biological population dynamics. May be repeated for credit one time. Occasional.

PCB 5485  BCBS-M&M  3(3,0)
Models in Ecology: PR: PCB 3044, MAC 2311 (or equivalent), and graduate status or senior standing or C.I. A survey of how simulation models are applied to ecological questions of both a theoretical and management nature. Occasional. M&S fee: $15.00

PCB 5556  COS-BIOL  3(3,0)
Conservation Genetics: PR: PCB 3063 and PCB 4683. Applications of genetic models to the understanding and conservation of animal and plant populations. Occasional. M&S fee: $15.00

PCB 5665C  COS-BIOL  4(3,2)
Human Genetics: PR: PCB 3063, graduate status or senior standing, or C.I. Human Genetics provides a theoretical framework for understanding the biology of the human species. Occasional. M&S fee: $15.00

PCB 5677  COS-BIOL  3(3,0)
Molecular Evolution: PR: PCB 3063 and PCB 4683, graduate status or senior standing, or C.I. Provides an overview of molecular methods currently used to analyze diversity within and among species. Occasional.

PCO 4203  COS-PSYCH  4(3,2)
Interviewing and Counseling: PR: PSY 3122, PFE 2803, CLP 3143 and C.I. A review of various interviewing and counseling theories and techniques used in Mental Health settings as well as practical experience in interviewing and counseling procedures. Fall, Spring.

PEL 2011  ED-TLP  2(1,1)
Basic Volleyball and Softball: The analysis of offensive and defensive alignment, techniques, and strategies. Occasional.

PEL 2111  ED-TLP  2(1,1)
Beginning Tennis: Performance and application of basic skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport. Fall, Spring.

PEL 2112  ED-TLP  2(1,1)
Intermediate Bowling: PR: PEL 2111, bowling experience, or average of 140 verification by league sheet. This course provides in-depth information that is necessary for the development of high bowling averages. Occasional.

PEL 2121  ED-TLP  2(1,1)
Beginning Golf: Performance and application of basic skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport. Fall, Spring.

PEL 2122  ED-TLP  2(1,1)

PEL 2341  ED-TLP  2(1,1)
Beginning Tennis: Performance and application of basic skills, rules and etiquette. Physiological and social values accruing from this lifetime sport. Occasional.

PEL 2342  ED-TLP  2(1,1)
Intermediate Tennis: PR: PEL 2341 or equivalent competency. Performance and application of advanced skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport. Occasional.

PEL 2640  ED-TLP  2(1,1)
Basic Football and Basketball: The analysis of offensive and defensive alignment, techniques, and strategies. Occasional.

PEM 2101  ED-TLP  2(1,1)
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. Fall, Even Spring.

PEM 2104  ED-TLP  3(2,1)
Personal Fitness: Study of personal fitness concepts, with opportunities to develop an individual, optimal level of fitness and an improved lifestyle through high-level wellness. Fall, Spring.
PEO 2121C ED-TLP 3(1,3)
Yoga: Performance and application of a series of basic movement, breathing, and concentration techniques designed to enhance body awareness, flexibility, strength, and balance, and to allow the mind to be focused and centered. Fall, Spring.

PEO 2131 ED-TLP 2(1,1)
Strength Resistance Training: Study of fitness and strength development through resistance exercise. Fall, Spring.

PEO 2171 ED-TLP 2(1,1)
Aerobics: Appropriate rhythmic muscle toning movements that develop aerobic fitness; concepts taught include warm-up, flexibility, stretching, cool down, and heart rate. Fall, Spring.

PEO 2173 ED-TLP 2(1,1)
Step Aerobics: Appropriate rhythmic muscle toning movements utilizing the step to develop aerobic fitness. Concepts taught include warm-up, flexibility, work-out, and cool-down. Occasional.

PEO 2178 ED-TLP 2(1,1)
Country/Western Dance: Basic instruction in Country/Western Dance. Improve aerobic fitness by learning line dances, circle dances and basic partner steps, such as two-step and waltz. Occasional.

PEO 2405 ED-TLP 3(1,2)
Self Defense for Women and Men: Designed to provide students with self defense skills. Fall, Spring.

PEO 2413 ED-TLP 2(1,2)
Tae Kwon Do: An analysis and application of the martial arts, as part of an overall physical and mental training system. Occasional.

PEO 5408C ED-TLP 3 (2,1)
Controlling Classroom Violence: PR: Graduate standing; certified teacher. A hands-on course dealing with controlling disruption and violence as well as how teachers can protect themselves. Occasional.

Pen 1121 ED-TLP 2(1,1)
Elementary Swimming: For non-swimmers and beginning swimmers. Development and study of technique in the basic skills of water safety and swimming. Occasional.

PEO 2011 ED-TLP 3(2,1)
Team Sports: PR: This course is designed to develop skill proficiency and knowledge to plan, implement and evaluate team sports as part of the Physical Education program. Fall, Spring. M&S fee: $5.00

PEO 2031 ED-TLP 3(2,1)
Individual Sports: Skill proficiency and knowledge to plan, implement and evaluate individual sports. Fall, Spring.

PEO 2624 ED-TLP 3(2,1)
Coaching Basketball: Theory and methods of coaching basketball, including the analysis of offensive and defensive techniques and strategies. Fall.

PEO 3041 ED-TLP 3(3,0)

PEO 3224 ED-TLP 3(2,1)
Coaching Volleyball: Theory and methods of coaching volleyball, including the analysis of offensive and defensive alignment techniques and strategies. Spring.

PEO 3644 ED-TLP 3(2,1)

PEO 5645C ED-TLP 3(2,1)

PEP 3205 ED-TLP 3(2,1)
Gymnastics: This course is designed to develop skill proficiency and instructional strategies in gymnastics. Occasional.

PET 2622C ED-TLP 3(2,1)

PET 3084 ED-TLP 3(3,0)
Triathlon Training and Performance: PR: PEM 2104 Personal Fitness or C.I. Trainee competes, performs, and competes to the development of optimal fitness and an improved healthy lifestyle. Occasional.

PET 3137 ED-TLP 3(3,0)
Concepts & Practices in Sports & Fitness: PR: Admission to the program or C.I. Examination of concepts and practices in sports and fitness. Fall.

PET 3214 COS-PSYCH 3(3,0)
Sports Psychology: A review of principles of psychology related to the enhancement of satisfaction and performance in sports. Occasional.

PET 3361 ED-TLP 3(3,0)
Nutrition for Sports and Fitness: PR: ZOO 3736C or C.I. Study of nutrition with focus on the strategies designed to meet nutrient demands for physical activity, exercise, and athletic performance in sports and fitness. Fall.

PET 3408 ED-TLP 3(3,0)
Public Relations in Sports and Fitness: PR: Admission to program or C.I. Functions and responsibilities of a public relations professional in the sport and fitness community, and the interaction with the public and media representatives with specific application to sports and fitness professionals. Fall.

PET 3462 ED-TLP 3(3,0)
Fiscal & Facilities: Issues in Sports and Fitness: PR: Admission to program or C.I. Design, maintenance, and operation of sports and fitness facilities with a specific focus on fiscal management. Fall.

PET 3493 ED-TLP 3(3,0)
Sports and Ethics: PR: Junior standing or C.I. An exploration into ethics and its influence on sports. Fall, Spring.

PET 3620C HPA-HP 3(2,2)

PET 3623C HPA-HP 3(2,2)
Recognition and Evaluation of Athletic Injuries I: PR: PET 3620C. Recognition and evaluation skills required to perform an injury assessment of the upper extremity, head and neck, and provision of immediate management. Fall.

PET 3670C HPA-HP 4(0,8)
Praacticum in Athletic Training I: PR: PET 3620C. Clinical introduction to an athletic training site under direct supervision of a Certified athletic trainer. Fall.

PET 3671C HPA-HP 4(0,8)
Praacticum in Athletic Training II: PR: PET 3670C. Continuation of Clinical practicum under direct supervision of Certified athletic trainer. Spring.

PET 3740C ED-TLP 2(1,1)
Teaching Physical Education in the Secondary and Middle School (6-12): PR: Admission to Junior Block, or C.I. Curricular and instructional considerations for teaching secondary and middle school physical education. Occasional.

PET 3765 ED-TLP 3(3,0)
Coaching Theory: PR: Admitted to COE or C.I. Theories of coaching team and individual sports. Fall, Spring.

PET 3776 ED-TLP 3(3,0)
Fitness and Conditioning Concepts: PR: ZOO 3736C or C.I. The integration of advanced components of muscular strength training and endurance conditioning for the sports and fitness professional. Fall.

PET 3820 ED-TLP 3(2,1)
Teaching Sports Skills I: PR: PET 2622C. Skill proficiency and knowledge to plan, implement and evaluate sports and leisure activities in physical education programs. Occasional.

PET 3940 ED-TLP 3(3,0)
Internship I Physical Education: PR: EDG 4323; CR: PET 3939. Student teaching in a physical education program under the supervision of a certified classroom teacher. Occasional.

PET 3941 ED-TLP 6(0,16)

PET 4002 ED-TLP 3(1,2)
Outdoor and Leisure Activities: Study of contemporary outdoor and leisure activities. Course will include but not be limited to the "adventure activity curriculum," camping, water activities, fishing, orienteering, hiking. Occasional.

PET 4050C ED-TLP 3(2,1)
Motor Development and Learning: PR: PE Junior standing. An analysis of the theories and factors influencing the motor development of children and the learning of gross and fine motor skills. Fall, Spring.

PET 4083C ED-TLP 4(3,1)
Practical Fitness training: PR: PET 4312, PET 4351C, PET 2622C, PET 4550, PEM 2171. An in-depth study into fitness-related concepts as they are applied to individuals and groups. Fall, Spring.

PET 4088 ED-CFCS 3(3,0)
Physical Activity & Preventive Medicine: PR: ZOO 3736C or C.I. Critique and analysis of evidence that exercise training can prevent some diseases and increase quality of life. Occasional.

PET 4215 ED-TLP 3(3,0)
Motivational Aspects of Athletic Performance: PR: Coaching minor or C.I. Theories of attitude, motivation, effort, persistence, mental focus, visualization, and an exploration of techniques to enhance athlete performance. Fall, Spring.
PET 4312 ED-TLP 3(2,1) Biomechanics: PR: Anatomy. The comprehension and application of anatomical and mechanical principles involved in human movement. Fall.

PET 4315C HPA-HP 3(2,2) Biomechanics of Sport: PR: PET 4630C. Assessment and recognition of physiological and mechanical aspects of sports and injuries. Fall.

PET 4351C ED-TLP 3(2,1) Applied Exercise and Human Physiology: PR: ZOO 3735C, ZOO 3765C or appropriate human anatomy course. Metabolic, neuromuscular, respiratory and cardiovascular physiological concepts and principles with practical application to physical education and sport. Fall, Spring.

PET 4401 ED-TLP 3(3,0) Administration and Evaluation in Physical Education: This course is designed to address administrative, measurement and evaluation considerations of physical education programs. Fall, Spring.

PET 4491 ED-TLP 3(3,0) Legal Issues in Sports and Fitness: PR: Admission to program or C.I. Examination of the legal issues and problems encountered by sports and fitness professionals. Fall.

PET 4550 ED-TLP 3(2,1) Fitness Assessment: PR: ZOO 3735C or C.I. A study and acquisition of health related fitness, exercise strategies and related assessment techniques. Occasional.

PET 4603 HPA-HP 3(3,0) Introduction to Athletic Training: PR: Athletic Training majors only. Basic athletic training skills including emergency care, taping and wrapping, goniometry and manual muscle testing. Occasional.

PET 4604 HPA-HP 3(3,0) Sports Medicine Field Application: Demonstration and application of the treatment for various sports injuries. Spring.

PET 4606 HPA-HP 3(3,0) Applied Fitness in Sport: PR: PET 3671C. Appreciation and clinical application of fitness regarding athletics. Spring.

PET 4624C HPA-HP 3(2,2) Recognition and Evaluation of Athletic Injuries II: PR: PET 3620C and PET 3626C. Recognition and evaluation skills required to perform an injury assessment of the lower extremity, spine, and general medical conditions and provision of immediate management. Spring.

PET 4625 ED-TLP 3(3,0) Human Injuries: Mechanisms & Prevention: PR: PET 2622C and ZOO 3736C or C.I. Study of human movement and analysis of techniques for the prevention and treatment of human injuries associated with sports and fitness. Fall.


PET 4640 ED-TLP 3(3,0) Adapted Physical Education: Principles and methods of adapting physical education activities and programs for exceptional children and adults; mainstreaming rationale and methods analyzed. Spring.

PET 4660C HPA-HP 3(3,0) Organization and Administration of Athletic Training: PR: PET 3671C. Administrative knowledge in the athletic training profession. Fall.

PET 4672C HPA-HP 4(0,8) Practicum in Athletic Training III: PR: PET 3671C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer. Fall.

PET 4673C HPA-HP 4(0,8) Practicum in Athletic Training IV: PR: PET 4672C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer. Spring.


PET 4710 ED-TLP 3(3,0) Teaching Physical Education K-12: PR: Must be admitted to internship. Develop effective instructional skills through planning, teaching, and assessment. Curricular and instructional considerations for teaching Physical Education. Odd Fall, Even Spring.

PET 4724 ED-TLP 3(3,0) Development and History of Physical Education Curriculum: A study of the factors involved in curriculum development and historical and philosophical considerations of physical education programs. Occasional.

PET 4763 ED-TLP 3(3,0) Coaching Methods And Principles: PR: Junior standing. Coaching minor or C.I. Assist students in understanding and conceptually integrating teaching methods/coaching strategies with emphasis given to conditioning and leadership styles. Occasional.

PET 4823C ED-TLP 3(2,1) Teaching Sports Skills II: PR: PET 3820. Skill, proficiency and knowledge to plan, implement and evaluate sports skills. Odd Fall, Even Spring.

PET 4925 ED-TLP 3-6 (0,16) Sports and Fitness Practicum I: PR: Overall GPA of 2.5 and completion of 2½ of the Sports and Fitness program requirements. Field experience in a sports and fitness related organization. Occasional.

PET 4926 ED-TLP 9-12(0,35) Sports and Fitness Practicum II: PR: Sports & Fitness Practicum I and overall GPA of 2.5. Field experience in a sports and fitness related organization, association, or business. Occasional.

PET 4943 ED-TLP 12(0,35) Internship II: PR: Must have completed course work in specialization. Satisfactory completion of portfolio. Full time student teaching under a certified elementary or secondary physical education teacher. May be repeated for credit. Graded S/U. Occasional.

PET 4945 ED-TLP 12(0,35) Internship III: PR: Must have completed course work in specialization. Satisfactory completion of portfolio. Full time student teaching under a certified elementary or secondary physical education teacher. Occasional.

PET 5355 ED-TLP 3(3,0) Exercise and Health: PR: Admission to Master's Program or Certificate Program. Will provide educators an in-depth understanding of energy pathways, and neuromuscular, cardiovascular, and respiratory systems during exercise. Emphasis on understanding principles of exercise adaptations and applying these principles to fitness/wellness settings. Occasional.

PET 5405 ED-CFCS 3(3,0) Introduction to Sports Administration: PR: C.I. This course will provide an overview of the sports industry. Fundamental leadership administration and research theories as well as information on current issues are emphasized. Occasional.

PET 5465 ED-CFCS 3(3,0) Financial Issues in Sports and Fitness: PR: C.I. Examines basic financial concepts including understanding annual reports, developing budgets, financial analysis, and examining methods for increasing revenue and controlling cost in the sport industry. Occasional.

PET 5466 ED-CFCS 3(3,0) Marketing and Promoting Sports and Fitness Programs: PR: C.I. Introduces students to all aspects of sports marketing including planning, organizing, marketing, evaluating, and conducting special and sport events. Occasional.

PET 5635 ED-TLP 3(3,0) Advanced Human Injuries: PR: PET 2622C or C.I. The application of medical knowledge to sport with the emphasis on preserving the health of an athlete before, during and after performance. Occasional.


PET 5931 ED-TLP 3(3,0) Current Issues and Trends in Physical Education and Sport: PR: Admission to the Physical Education Graduate Program or C.I. Examination of the current issues and trends encountered by professionals in physical education and sport. Occasional.

PGY 2401C CAH-ART 3(3,2) Beginning Photography: PR: ART 2201C, ART 2203C or C.I. Introduction to photography with an art emphasis. Fall. M&S fee: $45.00

PGY 3002 CAH-ART 3(3,0) Contemporary Photography: PR: ARH 3711 or C.I. Late 20th and 21st century (1970’s-present) contemporary movements in photography. Special emphasis on issues and ideas relative to contemporary image making. Occasional.

PGY 3205 CAH-ART 3(3,0) Photographic Lighting Techniques: PR: PGY 2107, PGY 2215 or C.I. Advanced lighting techniques in both the studio and on location, with projects in the editorial, advertising, or fine art genres. Occasional. M&S fee: $45.00

PGY 3324 CAH-ART 3(3,0) The Professional Environment: PR: ARH 3711, PGY 3002, or C.I. The world of professional photography, exploring various topics such as legal and ethical issues, marketing and self-promotion strategies. Occasional.

PGY 3451 CAH-ART 3(3,0) Alternative Processes: PR: PGY 4472 or C.I. 19th century photographic processes with related contemporary non-traditional methods of image creation and presentation. Occasional. M&S fee: $45.00

PGY 3480 CAH-ART 3(3,0) Photographic Exhibition and Display: PR: ARH 3711. PGY 3002, PGY 3324 or C.I. The museum environment, focusing on the acquisition and display of photographic materials as well as curatorial functions facing contemporary museums. Occasional.

PGY 3610C COS-COMM 3(1,4) Photographic Journalism I: PR: Journalism majors only. Black and white shooting and processing, dark room and computer-based newspaper assignments. 35 MM SLR camera with manual mode required. Fall, Spring. M&S fee: $45.00

PGY 3630 COS-COMM 3(3,0) Photographic Journalism II: PR: PGY 3602C. An in-depth study of photography in newspapers. Focusing on the acquisition and display of photographic materials as well as curatorial functions facing contemporary museums. Occasional. M&S fee: $11.00

PGY 3620C COS-COMM 3(1,2) Photographic Journalism III: PR: PGY 3610C. The Picture Story. Individual and group projects for extended documentary coverage. Odd Spring. M&S fee: $45.00

PGY 3751 CAH-ART 3(3,0) Videography: PR: PGY 3821 or C.I. Creation of video narratives using the digital environment. Occasional.

PGY 3809 CAH-ART 3(3,0) Photography and Web Design: PR: PGY 3821 or C.I. Advanced issues in digital imaging, emphasis on professional output solutions for the photographer such as web as an interface, large format printing, and film recorder. Occasional. M&S fee: $45.00

PGY 3821 CAH-ART 3(3,0) Digital Imaging for Photography: PR: PGY 1806 or C.I. Current digital software imaging and its application to contemporary work. Occasional. M&S fee: $45.00

PGY 4003 CAH-ART 3(3,0) Image, Culture, and Society: PR: PGY 3002 or C.I. The role of the media and media imagery in culture and society. Occasional.

PGY 4228 CAH-ART 3(3,0) Advanced Illustrative Photography: PR: PGY 3205 or C.I. Various avenues of photographic illustration, including lighting, historical and contemporary issues, style, presentation, and social concerns. Occasional. M&S fee: $45.00

PGY 4420C CAH-ART 2(3,2) Advanced Photography: PR: ART 2201C, ART 2203C, ART 2200C, ART 2301C, ART 2400C, and a satisfactory portfolio review or C.I.; Or, admission to the Photography program. Advanced photography skills and portfolio development. Designed for art majors. May be repeated for credit. Fall, Spring. M&S fee: $45.00

PGY 4440C CAH-ART 3(2,3) Special Problems in Photography: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2400C, and a satisfactory portfolio review or C.I.; Or, admission to the Photography program. Designed for upper division art majors with photography concentration. A series of directed photographic problems of a research nature. Occasional. M&S fee: $20.00

PGY 4471 CAH-ART 3(3,0) Photography Thesis: PR: PGY 3324, PGY 4003, or C.I. Senior thesis project culminating in a public exhibition or portfolio presentation. Occasional.

PGY 4472 CAH-ART 3(3,0) Photography Workshop/Project: PR: PGY 2655, PGY 2216 or C.I. Student personal projects incorporating photographic imagery. Emphasis is on purposeful and well-conceived self-expression and discovery. Occasional. M&S fee: $45.00

PGY 5108C CAH-ART 3(2,4) Advanced Techniques and Concepts in Photography: PR: PGY 2401C, PGY 3410C and PGY 4420C, or admission into MFA Graduate Program. Advanced techniques and concepts in photography, introducing historic and contemporary photographic works. May be repeated for credit twice. Occasional.

PHH 3041 CAH-PHIL 3(3,0) Russian Philosophy: PR: ENC 1102. A study of major themes and developments in Russian philosophy from the 18th century to the present, including critiques of culture, religion, society, and politics. Occasional.

PHH 3100 CAH-PHIL 3(3,0) Ancient Philosophy: PR: PHI 1010 or C.I. Foundations of Western philosophy in ancient Greek thinking about human beings and nature, including the pre-Socratics, Socrates, Plato, Aristotle. Occasional.

PHH 3200 CAH-PHIL 3(3,0) Medieval Philosophy: PR: PHI 2010 or C.I. The influence of Greek philosophical thought in medieval Muslim, Jewish and Christian philosophy, as expressed in its main problems and representative thinkers. Occasional.

PHH 3300 CAH-PHIL 3(3,0) Renaissance: PR: PGY 2655 or C.I. A study of the contributions of post-structuralist and neopsychoanalytical theories to cultural issues in sexuality and gender. Even Fall.

PHH 3510 CAH-PHIL 3(3,0) Marx and Nietzsche: PR: Junior standing. The philosophies of Marx and Nietzsche, important differences in outlook and emphasis, the significance of their respective critiques of society, the implications of their conflicting standpoints for understanding human life, the philosophical and ideological influences of their work, and their contemporary relevance. Occasional.

PHH 3600 CAH-PHIL 3(3,0) Contemporary Philosophy: PR: PHI 2010 or C.I. Recent and current trends in philosophy, including philosophical analysis, phenomenology, structuralism, post-structuralism, and liberation philosophies. Occasional.

PHH 3700 CAH-PHIL 3(3,0) American Philosophy: PR: PHI 2010 or AMH 2010 or AMH 2020 or C.I. A thematic and chronological survey of major topics in American thought, with primary focus on the American spirit of individualism and reform. Even Spring.

PHH 3701 CAH-PHIL 3(3,0) Native American Philosophy: PR: PHI 2010 or C.I. Academic Native American philosophy in epistemology, political philosophy and environmental studies. Even Fall.

PHH 2010 CAH-PHIL 3(3,0) Introduction to Philosophy: Inquiry into the meaning and justification of fundamental ideas and beliefs concerning reality, knowledge, and values: application to relevant topics in ethics, religion, and politics. Fall, Spring.

PHH 2010H CAH-PHIL 3(3,0) Honors Introduction to Philosophy: PR: Permission of Honors. Same as PHI 2010 with honors-level content. Fall.

PHH 2011 CAH-PHIL 3(3,0) Philosophical Reasoning: A study of reasoning in philosophy: the role of consistency, infinite regress arguments, modeling, and system building, discovery procedures, diagonalization, and contract and paradigm case arguments. Occasional.

PHH 2101 CAH-PHIL 3(3,0) Formal Logic I: A study of sentence and predicate logics, with introduction to modal, epistemic, deontic, multi-valued, and indeterminite logics. Occasional.

PHH 2108 CAH-PHIL 3(3,0) Critical Thinking: The logic of conversation, informal fallacies, and reasoning about human action. Occasional.

PHH 2630 CAH-PHIL 3(3,0) Ethics: An examination of the nature of moral problems, justifications and principles, with emphasis on recent formulations in ethical theory. Occasional.

PHH 2647 CAH-PHIL 3(3,0) Logic and Ethics: PR: PHI 2010 or COT 3102 or MAD 2104. Research in logic applied to ethics, especially for science and technology. Uses of simulation and modeling to study philosophical problems in ethics. Occasional.

PHH 3022 CAH-PHIL 3(3,0) Sexuality, Gender & Philosophy: PR: WST 3015, PHI 2010, PHM 3123, or C.I. Examines the contributions of post-structuralist and neopsychoanalytical theories to cultural issues in sexuality and gender. Even Spring.

PHH 3033 CAH-PHIL 3(3,0) Philosophy, Religion, and the Environment: PR: Junior standing or C.I. A multicultural treatment of the influence of philosophical and religious views on our understanding of, and relation to, the environment. Occasional.

PHH 3083 CAH-PHIL 3(3,0) Research Methods in Philosophy: PR: Philosophy or Humanities major or C.I. Sources, methods, and styles of research in Philosophy. Aimed at enhancing the research, reading, and writing skills of undergraduate philosophy students. Odd Fall.

PHH 3131 CAH-PHIL 3(3,0) Formal Logic II: PR: PHI 2011. Systematic study of propositional and first-order predicate logic, logistic systems and axiomatic methods; problems of metaphor, including consistency, completeness, and decidability. Occasional.

PHH 3320 CAH-PHIL 3(3,0) Philosophy of Mind: PR: PHI 2010, PSY 2012, or C.I. Recent and contemporary attempts to understand the relation of mind to body, the relation of consciousness to personal identity, and the relation of psychology to neurobiology. Occasional.

PHH 3322 CAH-PHIL 3(3,0) Minds and Machines: Philosophy of Cognitive Science: PR: PHI 2010 or C.I. Assumptions underlying research in Cognitive Science. Fall, Spring.

PHH 3451 CAH-PHIL 3(3,0) Philosophy of Psychology: PR: Junior standing or C.I. Philosophical assumptions and foundations of major psychological movements plus other philosophically interesting issues. Occasional.
of simulation, virtual environments, and modeling in philosophy, especially in ethics. Occasional.

PHI 3625 CAH-PHIL 3(3,0)
Virtual Ethics: PR: COP 3502C or DIG 2000 or C.I. Ethics of virtual worlds as contrasted to the physical world, the use of simulation, virtual environments, and modeling in philosophy, especially in ethics. Occasional.

PHI 3626 CAH-PHIL 3(3,0)
Advanced Ethics in Science and Technology: PR: COP 3502C or DIG 2000 or PHI 2647. Critical thinking applied to ethics in science and technology. Fall, Spring.

PHI 3629 CAH-PHIL 3(3,0)

PHI 3638 CAH-PHIL 3(3,0)

PHI 3640 CAH-PHIL 3(3,0)
Environmental Ethics: PR: Junior standing. Major contemporary views in environmental ethics, including individual and holistic approaches, deep ecology, ecofeminism, and social ecology. Occasional.

PHI 3648 CAH-PHIL 3(3,0)
Ethical Implications of the Human Genome Project: PR: BSC 2010C and either PHI 2010 or PHI 2630 or PHI 3670. Ethical issues surrounding the Human Genome Project, including genetic testing, genetic therapies, genetic enhancement, forensics, data banking, and genetic patenting. Occasional.

PHI 3670 CAH-PHIL 3(3,0)
Ethical Theory: PR: Junior standing and C.I. Major classical and contemporary topics in ethics, including value theory, utilitarianism, deontological, virtue-based and feminist approaches to ethics, rights and justice; some examination of metaethical issues. Even Spring.

PHI 3672 CAH-PHIL 3(3,0)
Animal Ethics: PR: PHI 2010 or C.I. Key issues and debates in the area of animal ethics, including both theoretical and applied dimensions. Occasional.

PHI 3683 CAH-PHIL 3(3,0)
Philosophy of Friendship: PR: One of: PHI 2010, PHI 3670, PHI 3638, or C.I. Philosophical aspects of friendship, focusing on its interpersonal, moral, social, and political significance and implications. Occasional.

PHI 3684 CAH-PHIL 3(3,0)
Ways of Living: PR: HUM 2210 or HUM 2230 or C.I. Philosophies of life and the notion of “the good life.”. Occasional.

PHI 3700 CAH-PHIL 3(3,0)
Philosophy of Religion: PR: REL 2300 or PHI 2010. An examination of basic ideas, beliefs, attitudes, and functions of religion, with emphasis upon questions of conceptual meaning and cognitive justification. Odd Spring.

PHI 3720 CAH-PHIL 3(3,0)
Philosophies of Embodiment: PR: Admission to graduate certificate in Cognitive Sciences or C.I. Relations among mind, body, and nature. Knowledge of self, world and others as articulated by Western philosophy, with special emphasis on embodied cognition. Occasional.

Philosophy of Neuroscience: PR: Admission to graduate certificate in Cognitive Sciences or C.I. Neurophilosophy, including discussion of promises and limitations of neuroscience for understanding of the mind. Occasional.

Research Methods in the Cognitive Sciences: PR: Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3640 or C.I. Interdisciplinary research methods in the cognitive sciences. Spring.

Theoretical and Applied Ethics: PR: Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3638, or Graduate standing or C.I. A seminar in theoretical and applied ethics with emphasis on application in professional fields. Variable content. Fall.

Knowledge, Responsibility, and Society: PR: Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3638, PHI 4300, PHI 4341, PHI 4400, PHI 4653, PHI 4903, or Graduate standing. A seminar exploring the relationship between ethics and epistemology with application to social concerns. Variable content. Occasional.

Ethics in Science and Technology: PR: Graduate standing or C.I. The relationship between ethics and the pursuit and application of human knowledge, emphasizing the responsibility of scientists to society. Occasional.

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. Occasional.


Philosophy of Law: PR: PHI 2010, PHI 2630, PHI 3670, or POS 2041. Study of the nature of, and justifications for, law and punishment. Examination of the concepts of legal personhood, rights and responsibilities. Spring.

Environmental Philosophy: PR: PHI 3400, PHI 2630, or C.I. Major contemporary positions in environmental philosophy, including deep ecology, ecofeminism, and social ecology. Occasional.

Environmental Philosophy: PR: PHI 3400, PHI 2930, graduate status or senior standing, or C.I. This course will provide an in-depth examination of the major contemporary positions in environmental philosophy, including deep ecology, ecofeminism, and social ecology. Occasional.


Modernity as a Philosophical Problem: PR: PHI 2010 or PHI 3640 or C.I. Modernity in the philosophies of Kant, Hegel, Nietzsche, Heidegger, Derrida, Rorty, and others. Occasional.

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. Odd Fall.


Physical Assessment Lab: PR: PHI 3069. Lab course emphasizing the examinations required to perform an evaluation of a physical therapy patient. Occasional.

Gross Anatomy/Neuroscience I: PR: Admission into the Physical Therapy program. CR: PHI 3112L. In-depth study of human morphology emphasizing the back, spinal cord, cranial nerves, and upper and lower extremities. Regional cadaver dissection. Occasional.

Gross Anatomy/Neuroscience I Lab: CR: PHI 3112L. Human cadaver dissection of the back, spinal cord, cranial nerves, and upper and lower extremities. Occasional.


Gross Anatomy/Neuroscience II Lab: CR: PHI 3113L. In-depth study of human morphology emphasizing the brain, the cervical spine, pelvis, and the internal organs. Occasional.

Clinical Kinesiology: CR: PHI 3122L. Mechanical aspects of human movement, including joint mechanics of the upper and lower extremity, the vertebral column, and tissue mechanics of relevant human tissues. Coordinated with cadaver dissection. Occasional.


Physiology of Therapeutic Exercise: CR: PHI 3155L. Exercise physiology investigating the physiological responses and adaptations to human movement including cardiovascular and pulmonary systems. Occasional.

Physiology of Therapeutic Exercise Lab: CR: PHI 3155. Lab course emphasizing the clinical application of exercise physiology. Occasional.


Patient Care Skills Lab: CR: PHI 3259L. Lab course covering basic skills of patient care; transfers, mobility skills, draping, gait training. Occasional.


Clinical Gross Anatomy: PR: ZOO 3733C and C.I. Review of human anatomical systems using cadavers and emphasizing clinical applications and pathologies. Fall. M/L fee: $45.00


Therapeutic Exercise I Lab: CR: PHI 4222L. Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction. Occasional.


Pathology/Pharmacology: PR: PHI 3133. Organized seminars on the pathophysiology and clinical manifestations of various medical conditions as they relate to medical management in physical therapy practice. Occasional.

Medical Science and Pharmacology: 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. Occasional.


Foundations of Physical Therapy I: PR: Admission to the PT program. Introduction to the profession of physical therapy. Occasional.

UCF Courses and Descriptions

PHT 5115  HPA-HP  2(2,0)  Gross Anatomy/Neuroscience I: PR: Admission to PT program. In-depth study of human morphology emphasizing the back, spinal cord, cranial nerves, and upper and lower extremities. Regional cadaver dissection. Occasional.

PHT 5115L  HPA-HP  2(0,4)  Gross Anatomy/Neuroscience I Lab: PR: Admission to PT program. Human cadaver dissection of the back, spinal cord, cranial nerves, and upper and lower extremities. Occasional. M&S fee: $45.00.

PHT 5118  HPA-HP  2(2,0)  Gross Anatomy/Neuroscience II: PR: PR Gross Anatomy/Neuroscience I and Lab; CR Gross Anatomy Neuroscience II Lab. In-depth study of human morphology emphasizing the brain, the cervical spine, pelvis, and the internal organs. Fall.

PHT 5118L  HPA-HP  2(0,4)  Gross Anatomy/Neuroscience II Lab: PR: Gross Anatomy Neuroscience I and Lab; CR Gross Anatomy Neuroscience II. Directed Laboratory experiences with cadaver dissection; use of the skeleton, models, and computer programs to facilitate learning. Fall. M&S fee: $45.00.

PHT 5125  HPA-HP  2(2,0)  Clinical Kinesiology: CR: PHT 5125L. Investigates the mechanical aspects of human movement, joint mechanics of the upper and lower extremity, the vertebral column and tissue mechanics of relevant human tissues. Occasional. M&S fee: $15.00.

PHT 5125L  HPA-HP  2(0,2)  Clinical Kinesiology Lab: CR: PHT 5125. Concerned with the theoretical and practical application of aspects of human movement, joint mechanics of the upper and lower extremity, vertebral column and soft tissues. Occasional. M&S fee: $15.00.

PHT 5156  HPA-HP  2(2,0)  Physiology of Therapeutic Exercise: PR: Admission to PT program. Exercise physiology investigates the physiological responses and adaptations to human movement including cardiovascular and pulmonary. Occasional.

PHT 5156L  HPA-HP  2(0,4)  Physiology of Therapeutic Exercise Lab: CR: PHT 5156. Lab course emphasizing the clinical application of exercise physiology. Occasional. M&S fee: $15.00.

PHT 5218  HPA-HP  2(2,0)  Theories and Procedures I: PR: CR Theories and Procedures I Lab. Theories of physical agents, heat, light, cold, water, sound, and massage; problem solving rational and selection of interventions for inflammation, pain, edema, and weakness. Spring. M&S fee: $15.00.

PHT 5218L  HPA-HP  1(0,2)  Theories and Procedures I Lab: PR: CR Theories and Procedures I. Lab course on the clinical applications of heat, light,cold, water, sound, and massage. Spring. M&S fee: $15.00.

PHT 5240  HPA-HP  1(1,0)  Physical Assessment: PR: Physical Assessment Lab. Extensive theory and practice in the examination of the patient. Incorporate a systems approach, utilizing screening, and patient problem solving. Fall.

PHT 5240L  HPA-HP  2(0,4)  Physical Assessment Lab: PR: CR Physical Assessment. Lab course emphasizing the examinations required to perform an evaluation of physical therapy patient. Fall. M&S fee: $25.00.


PHT 5241L  HPA-HP  2(0,4)  Therapeutic Exercise Lab I: PR: Therapeutic Exercise I. Lab course emphasizing therapeutic exercise for the treatment of patients with musculoskeletal dysfunction. Spring. M&S fee: $15.00.

PHT 5246  HPA-HP  2(2,0)  Patient Care Skills: CR: Patient Care Skills Lab. Affective, cognitive, and psychomotor skills, regarding patient care. Basic skills of patient care, transfers, mobility skills, draping, gait training. Fall.

PHT 5260L  HPA-HP  1(0,2)  Patient Care Skills Lab: CR: Patient Care Skills. Skills of patient care, transfers, mobility skills. Fall. M&S fee: $25.00.

PHT 5306  HPA-HP  2(2,0)  Pathology/Pharmacology: PR: Admission to PT program. Organized seminars on the pathophysiology and clinical manifestations of various medical conditions as they related to medical management in physical therapy practice. Occasional.

PHT 5411  HPA-HP  3(3,0)  Foundations of Physical Therapy II: This course emphasized the psychosocial aspects of disability. Focus on cultural diversity issues, communication skills, and different styles of learning and teaching. Occasional.


PHT 5722C  HPA-HP  2(2,1)  Physical Therapy Integration I: PR: Admission to PT program. Problem solving approach to selected dysfunctions, including burns and open wounds, and selected diagnostic procedures and therapy interventions. Occasional. M&S fee: $15.00.

PHT 5805  HPA-HP  1(0,4)  Clinical Education I: PR: Admission to PT program. Full-time supervised clinical education in physical therapy settings. Application of objectives of courses previously completed. Graded SU. Spring.

PHY 2048  COS-PHYS  3(3,0)  Physics for Engineers & Scientists I: PR: MAC 2311 or equivalent. Same as PHY 2048L with honors-level content. Occasional.

PHY 2048L  COS-PHYS  1(0,3)  Physics Laboratory for Engineers and Scientists I: CR: PHY 2048. Laboratory experiments covering selected topics in physics related to PHY 2048. Fall, Spring. M&S fee: $15.00.

PHY 2049  COS-PHYS  3(3,0)  Physics for Engineers and Scientists II: PR: MAC 2312 and PHY 2048 or PHY 2048H. Electricity, magnetism, optics. Fall, Spring.

PHY 2049H  COS-PHYS  3(3,0)  Honors Physics Laboratory for Engineers and Scientists II: PR: Permission of Honors and PHY 2312 or equivalent. Same as PHY 2049L with honors-level content. Occasional.

PHY 2049L  COS-PHYS  1(0,3)  Physics Laboratory for Engineers and Scientists II: CR: PHY 2049. Laboratory experiments covering selected topics in physics related to PHY 2049. Fall, Spring. M&S fee: $15.00.

PHY 2053C  COS-PHYS  4(3,3)  College Physics I: PR: MAC 1105 and MAC 1141 or equivalent or C.I. Mechanics, waves, thermodynamics. Fall, Spring. M&S fee: $15.00.


PHY 2090  COS-PHYS  0(1,5)  Physics Today: CR: PHY 2048 or PHY 2048H. Fundamental physics principles behind recent developments in physics research will be presented in a seminar format. May be repeated for credit. Occasional.

PHY 3101  COS-PHYS  3(3,0)  Physics for Engineers and Scientists III: PR: MAC 2313 and PHY 2049 or PHY 2049H. Thermodynamics, oscillations, modern physics. Fall, Spring.

PHY 3110H  COS-PHYS  3(3,0)  Honors Physics for Engineers and Scientists III: PR: Permission of Honors and PHY 2049 or PHY 2049H. Same as PHY 3101 with honors-level content. Occasional.

PHY 3220  COS-PHYS  3(3,0)  Mechanics I: PR: PHY 2048 or PHY 2048H, MAP 2302. Particle dynamics, rigid bodies, Lagrangian formulation of mechanics, Hamilton’s equations. Spring.

PHY 3323  COS-PHYS  3(3,0)  Electricity and Magnetism I: PR: PHY 2049, MAP 2302. Electrostatics, magnetostatics, Lorentz force current electricity, Maxwell’s equations. Fall.

PHY 3513  COS-PHYS  3(3,0)  Thermal and Statistical Physics: PR: PHY 3101 or PHY 3110H or C.I. Thermodynamics, kinetic theory, elements of statistical mechanics. Fall.

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PHY 3802I COS-PHYS 3(1.5) Intermediate Physics Laboratory: PR: PHY 3101 or C.I. Laboratory work in basic measurements of physical constants; experiments in electronics, modern physics, nuclear physics, optics, and solid state physics. May be repeated for credit. Fall.

PHY 4324 COS-PHYS 3(3,0) Electricity and Magnetism II: PR: PHY 3323. Dielectrics, magnetic materials, electromagnetic waves, reflection, complex impedance, static solutions to Laplace's Equation, radiation from an accelerated charge and antennae, special relativity. Spring.

PHY 4424 COS-PHYS 3(3,0) Optics: PR: PHY 3101 and PHY 3232. Wave optics, absorption, stimulated emission, lasers, transforms, coherence, holography. Occasional.

PHY 4424L COS-PHYS 3(0,3) Optical Physics Laboratory: A laboratory course on geometric optics, interference, diffraction, materials and modern optics. Occasional.

PHY 4445 COS-PHYS 3(3,0) Lasers: PR: PHY 3101, MAP 2302, PHY 4424, or C.I. Principles of laser gain media, properties of resonators and modes, and description of specific laser systems. Occasional.


PHY 4803L COS-PHYS 3(1.5) Advanced Physics Laboratory: PR: PHY 3802L. Experiments in optics, electronics, nuclear and solid state physics. Emphasis on design, data, and scientific writing. Occasional. M&S fee: $15.00


PHY 5015C COS-PHYS 3(2,2) Physics for Teachers II: PR: Graduate status or senior standing or C.I. "Hands-on" lecture-laboratory course. Dynamics, electricity, magnetism, optics, nuclear radiation. Occasional.

PHY 5100 COS-PHYS 1(1.0) Topics in Contemporary Physics for Teachers: PR: Graduate status or senior standing or C.I. The study of recent findings in a selected area such as particle physics, surface physics, planetary atmospheres, lasers, geo-physics, etc. May be repeated for credit. Occasional.

PHY 5140C COS-PHYS 3(3,2) Ion-Solid Interactions: PR: PHY 4604 or PHY 4324, graduate status or senior standing, or C.I. Physical principals and related scientific and technological applications of ion-solid interactions. Odd Spring.

PHY 5200C COS-PHYS 1(0,5,1.5) Newtonian Mechanics for Teachers: PR: Graduate status or senior standing or C.I. A lab, lecture, demonstration course studying selected topics in classical mechanics. Occasional.

PHY 5300C COS-PHYS 1(0,5,1.5) Electricity for Teachers: PR: Graduate status or senior standing or C.I. Circuits, multimeters, oscilloscopes, circuit elements. Occasional.

PHY 5302C COS-PHYS 1(0,5,1.5) Electromagnetism for Teachers: PR: Graduate status or senior standing or C.I. Gauss' Law, Biot-Savart Law, Ampere's Law, Faraday's Law, Lenz's law, motors, generators, AC circuits and Maxwell's Equations. Occasional.

PHY 5346 COS-PHYS 3(3,0) Electrodynamics I: PR: PHY 4324, and graduate status or senior standing or C.I. Boundary value problems in electrostatics and magnetostatics. Maxwell's equations. EM fields in matter, wave generation and propagation, wave guides, resonant cavities. Fall.

PHY 5401C COS-PHYS 1(0.5,1.5) Optics for Teachers: PR: Graduate status or senior standing or C.I. Geometrical and physical optics, spectrometers and lasers. Occasional.

PHY 5455 COS-PHYS 3(3,0) Modern X-Ray Science: PR: Graduate status or senior standing or C.I. An introduction to the science and applications of modern x-ray optics, x-ray lasers, etc., with a review of basic properties of x-rays. Occasional.

PHY 5465C COS-PHYS 1(0,5,1.5) Wave Motion for Teachers: PR: Graduate status or senior standing or C.I. Water waves, waves on strings, sound and vibrations. Occasional.

PHY 5500C COS-PHYS 1(0,5,1.5) Thermal Physics for Teachers: PR: Graduate status or senior standing or C.I. Engines, heat pumps, kinetic theory, phase changes, radiation, weather. Occasional.

PHY 5524 COS-PHYS 3(3,0) Statistical Physics: PR: PHY 3513, STA 3032, and graduate status or senior standing or C.I. A study of physical concepts and methods appropriate for the description of systems involving many particles. Ensemble theory, partition functions. Maxwell Boltzmann, Bose-Einstein, Fermi-Dirac statistics. Spring.

PHY 5606 COS-PHYS 3(3,0) Quantum Mechanics I: PR: PHY 4605, and graduate status or senior standing or C.I. Basic postulates of quantum mechanics, operators, eigenvalues, parity, potential wells, harmonic oscillator, time dependent and time independent Schroedinger equation, matrix formulation, and time independent perturbation theory. Fall.

PHY 5650 COS-PHYS 3(3,0) Introduction to Quantum Computation: PR: C.I. Theoretical fundamentals and physical implementations of quantum computation for science and engineering students. Occasional.

PHY 5817L COS-PHYS 1(0,3) Building Physics Apparatus: PR: Graduate standing or senior standing and C.I. Hands-on shop course. Focus will be machine shop practice with possible extension to printed circuit boards and glass work. Occasional. M&S fee: $45.00

PHY 5846C COS-PHYS 3(3,3) Methods of Experimental Physics: PR: Graduate status or senior standing or C.I. Introduction to methods of experimental physics, including instrumental design, data acquisition, vacuum, cryogenics, sample preparation, nuclear physics, transport, and spectroscopy. Fall, Spring.

PHY 5933 COS-PHYS 3(3,0) Selected topics in biophysics of macromolecules: PR: PHY 3101, CHM 2046, and graduate status or senior standing or C.I. Physical concepts and techniques used in the spectroscopic study of dynamic structure and function of biological macromolecules such as proteins; Connections with other complex systems. May be repeated for credit. Occasional.

PHZ 3113 COS-PHYS 3(3,0) Introduction to Theoretical Methods of Physics: PR: MAP 2322. Analytical techniques to solve problems of physics. Spring.


PHZ 3422 COS-PHYS 3(3,0) Nanophysics: PR: PHY 2040 or C.I. Physical phenomena occurring in nanometer-length scale, including nano colloids, and nano transport. Occasional.

PHZ 5156 COS-PHYS 3(3,0) Computational Physics: PR: PHZ 3151 or C.I. Computational methods applied to the solution of problems in many branches of physics. May be repeated for credit. Fall.

PHZ 5304 COS-PHYS 3(3,0) Nuclear and Particle Physics: PR: PHY 4604 or equivalent, and graduate status or senior standing or C.I. Particles and nuclei, symmetries and conservation laws, interactions, models. Occasional.

PHZ 5405 COS-PHYS 3(3,0) Condensed Matter Physics: PR: PHY 4604, PHY 3101, and graduate status or senior standing or C.I. Crystal lattice cell structure, phonons, free electron model, band theory of solids, Fermi surface, solid state applications, and polymers. Occasional.

PHZ 5425C COS-PHYS 3(3,3) Electron Solid Interactions: PR: Undergraduate senior or graduate status or C.I. The physics and applications of electron interactions with solids, classroom and hands-on laboratory content. Occasional.

PHZ 5432 COS-PHYS 3(3,0) Introduction to Soft Condensed Matter Physics: PR: PHY 3513 or C.I. Introduction to the physics of polymers, colloids, surfactants using basic tools of statistical mechanics. Graded S/U. Even Fall.

PHZ 5505 COS-PHYS 3(3,0) Plasma Physics: PR: PHY 4324, and graduate status or senior standing or C.I. Introduction to theory and experimental basis of both weakly and highly ionized plasmas. Instabilities, plasma waves, nonlinear effects, controlled thermonuclear fusion. Occasional.

PHZ 5600 COS-PHYS 1(1,0) Special Relativity for Teachers: PR: Graduate status or senior standing or C.I. Length contraction, time dilation, simultaneity, conservation of mass-energy, conservation of momentum, Compton scattering. Occasional.
### UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLA 3013</td>
<td>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.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 3104</td>
<td>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.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 3155</td>
<td>Legal Writing: PR: PLA 3104. A study of legal writing format and technique and the preparation of memoranda and other legal documents, using research skills learned in PLA 3104.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 3201</td>
<td>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.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 3201H</td>
<td>Civil practice and Procedure - Honors: PR: Permission of Honors and PLA 3013 or C.I. Same as PLA 3201 with honors level content.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 3273</td>
<td>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.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 3304</td>
<td>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.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 3308</td>
<td>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.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 3610</td>
<td>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.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4020</td>
<td>Law and Society: Examination of the relationship between law and American society including the impact on the legal system and legal profession of major social movements.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4223</td>
<td>Advanced Trial Advocacy: PR: PLA 4010 or C.I. Litigation and trials at an advanced level; students must handle trial from beginning to end. May be repeated for credit.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4240</td>
<td>Negotiation Alternatives in Law: PR: PLA 3003(C.I. Theories and skills involved in negotiation, mediation and other dispute resolutions processes.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4263</td>
<td>Evidence: PR: PLA 3013 and 3201 or C.I. An examination of statutes and cases that define rules of evidence for trial courts. Primary emphasis is on the Florida Evidence Code.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4423</td>
<td>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.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4433</td>
<td>Florida Partnerships and Corporations: Statutory requirements of Florida partnerships and corporations; creation and dissolution of business organizations; responsibilities of officers and basic rights of stockholders.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4460</td>
<td>Bankruptcy Law: PR: C.I. This course will acquaint the student with the substantive law and procedures associated with the rights and obligations of debtors and creditors.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4472</td>
<td>Employment Discrimination Law: PR: C.I. Course will address employment discrimination based on race, gender, religion, national origin, age, disability and sexual orientation. Issues such as workplace harassment will be analyzed.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4483</td>
<td>Administrative Law: PR: PLA 3013 or PAD 3003. The law regarding governmental agencies with emphasis on the administrative process, Administrative Procedures Acts and special problems of state administrative law.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4530</td>
<td>Legal Issues of the Elderly: PR: PLA 3013. Legal concerns faced by older Americans as they plan their later years and seek to maximize their personal autonomy.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4583</td>
<td>Cyber Law I: PR: PLA 3013. Analysis of copyright, trademark, and patent issues in cyberspace.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4583H</td>
<td>Honors Cyber Law: PR: Honors GEP completion or consent of The Burnett Honors College. Copyright, trademark, patent issues in cyberspace; online dispute resolution, privacy, and free speech topics. With Honors Content.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4601</td>
<td>Estates and Trusts: PR: PLA 3013, PLA 3610. A study of wills and trusts, and applicable legal principles of administration of estates through the processes of the Probate Court.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4602</td>
<td>Estate Administration: PR: PLA 4601. Study of the laws and procedures applicable to administration of estates.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4631</td>
<td>Land Use and Environmental Law: PR: PLA 3013, PLA 3610. Study of the law relating to public and private restraints on land use, including planning, zoning, subdivision and building regulations, with emphasis on recent interpretations by judiciary for environmental protection.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4700</td>
<td>Professional Ethics and Liability: PR: PLA 3013. Ethical responsibilities of professionals. Canons of legal ethics, liability for professional malpractice.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4710</td>
<td>Careers in Legal Studies: PR: Major in Legal Studies or C.I. Applications of Legal Studies. Students will explore options in legal studies, professional development, and ethics. Graded SU.</td>
<td>1(1,0)</td>
</tr>
<tr>
<td>PLA 4732</td>
<td>Advanced Legal Applications Computer Software: PR: PLA 3013 or C.I. Course will acquaint students with contemporary computer software applications used to satisfy the demands of today’s law firms and law-related fields.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4763</td>
<td>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.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4800</td>
<td>Sports Law: PR: PLA 3013 or C.I. Introduction to the legal issues and regulation of sports, focusing on torts, contracts, agency and constitutional law as applied to athletes.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4823</td>
<td>Legal Issues for Athletic Trainers: PR: C.I. Analysis of the legal issues affecting athletic trainers.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4825</td>
<td>Entertainment Law: PR: PLA 3013 or C.I. Introduction to the control and regulation of the entertainment industry and the associated legal issues.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4826</td>
<td>Advanced Entertainment Law: PR: PLA 4825. Legal complexities and regulations pertaining to the Entertainment Industry at an advanced level.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4830</td>
<td>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.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 4910</td>
<td>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.</td>
<td>3(4,0)</td>
</tr>
<tr>
<td>PLA 4935</td>
<td>Capstone: Legal Issues: PR: senior status, PLA 3155. Legal Studies major. The legal and socio-legal analysis of issues that require students to synthesize their legal studies education. Course will assist students entering employment or graduate education.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 5587</td>
<td>Current Issues in Cyberlaw: PR: Graduate standing or C.I. Advanced examination and discussion of free speech, copyright, trademark, patent and privacy issues in the online environment through interactive class discussions, online postings, postings, case study reviews, and legal research projects.</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>PLA 5937</td>
<td>Seminar in Contemporary Legal Problems: PR: C.I. Analysis of current trends in legislation and court decisions and their significance to American society.</td>
<td>3(1,2)</td>
</tr>
</tbody>
</table>
UFC Courses and Descriptions

POT 4025 COS-POLS 3(3,0)  
Ancient, Medieval and Early Modern Political Philosophy: Study of the development of political and social ideas in western thought from early Greece through the 17th century. Occasional.

POT 4054 COS-POLS 3(3,0)  
Modern Political Philosophy: Study of the development of political and social ideas from the 18th century to the present. May be taken independently of POT 4045 (Ancient, Medieval and Early Modern Political Philosophy). Occasional.

POT 4066 COS-POLS 3(3,0)  
Contemporary Political Theory: PR: Junior standing or C.I. Study of the contemporary debate about the status of rights, utilitarianism, and liberalism, and communitarian Marxist, Libertarian, and feminist critiques of liberalism. Occasional.

POT 4109 COS-POLS 3(3,0)  
Politics and Literature: PR: Junior standing. An examination of politics and the political process through the medium of literature. Occasional.

POT 4305 COS-POLS 3(3,0)  
The State, Society, and the Individual: PR: Junior standing or C.I. The relationship between the state, society, and the individual by discussing the works of major authors from Adam Smith to Robert Axelrod. Odd Fall.

POT 4314 COS-POLS 3(3,0)  
Contemporary Democratic Theory: PR: POS 2041 or C.I. Study of democratic theories, emphasizing liberal democracy and its critics, elitist theories, participatory democracy, citizen participation, and relevance of empirical research to democratic theory. Occasional.

POT 4331 COS-POLS 3(3,0)  
Utopia/Dystopia: PR: POS 2041 or C.I. Examines political issues, such as justice, economic distribution and social organization by exploring both classic and contemporary utopias and dystopias. Occasional.

POT 4345 COS-POLS 3(3,0)  
Pan-Africanist Thought: PR: INR 2002. Philosophical assumptions, theoretical frameworks, ideological orientations and social/political thinkers that have contributed to the tradition of Pan-Africanist thought. Occasional.

POT 4414 COS-POLS 3(3,0)  
Marxist Political Theory: Survey of Marx & Engels and other thinkers, exposing the theoretical underpinnings of nations and groups who have adapted Marxist principles for governance. Occasional.

POT 4632 COS-POLS 3(3,0)  
Religion and Politics: PR: Junior standing. Institutional and individual relationship of religion and politics including globalization, fundamentalism, secularization, American exceptionalism, political behavior, and the religious origins of current secular concepts. Occasional.

PPE 3003 COS-PSYCH 3(3,0)  

PPE 3003H COS-PSYCH 3(3,0)  

PPE 5055 COS-PSYCH 3(3,0)  
Personality Theories: PR: Graduate status or senior standing or C.I. Critical theoretical models of personality development with applications to counseling, psychotherapy and psychological assessment. Occasional.

PSB 3002 COS-PSYCH 3(3,0)  
Physiological Psychology: PR: PSY 2012. The physiological basis of behavior, emphasizing the relationship between the nervous system and behavior. Fall, Spring.

PSB 3441 COS-PSYCH 3(3,0)  

PSB 3842 COS-PSYCH 3(3,0)  

PSB 4103C COS-PSYCH 3(2,2)  

PSB 4240C COS-PSYCH 4(3,2)  

PSB 4422 COS-PSYCH 3(2,2)  

PSB 5005 COS-PSYCH 3(3,0)  
Physiological Psychology: PR: PSY 3002 and graduate status or senior standing or C.I. An advanced survey of the physiological basis of behavior, emphasizing the relationship between the nervous system and behavior. Occasional.

PSC 1121 COS-PHYS 3(3,0)  

PSC 1121H COS-PHYS 3(3,0)  
Honors Physical Science: PR: Permission of Honors and MAC 1105 or MGF 1106. PSC 1121 with Honors-level content. Occasional.

PSC 1121L COS-PHYS 1(0,2)  
Physical Science Lab: CR: PSC 1121. Experiments to apply the scientific method to observation and analysis in mechanics, heat, light, electricity and magnetism, chemical and physical transformations. Fall, Spring. M&S fee: $10.00.

PSY 2012 COS-PSYCH 3(3,0)  
General Psychology: A survey of the basic principles, theories, and methods of contemporary psychology, including the study of human diversity. Fall, Spring.

PSY 2012H COS-PSYCH 3(3,0)  
Honors General Psychology: PR: Permission of Honors. A survey of the basic principles, theories, and methods of contemporary psychology, including the study of human diversity. Honors-level content. Fall, Spring.

PSY 2023 COS-PSYCH 1(1,0)  

PSY 3022C COS-PSYCH 3(1,8)  

PSY 3028 COS-PSYCH 3(3,0)  
Psychology of Career Development: PR: PSY 2012 or C.I. Review of career development theories and current psychological literature on career decision-making. Examination of career development in psychology including educational entry requirements and related issues. Occasional.

PSY 3204 COS-PSYCH 4(3,2)  
Statistical Methods in Psychology: PR: STA 2014C or STA 2023. Standard scores, confidence intervals, sampling distributions, hypothesis testing, correlation and regression as applied to research in psychology. Occasional.

PSY 3213C COS-PSYCH 4(3,2)  
Research Methods in Psychology: PR: PSY 2012 and STA 2014C or STA 2023. Investigation of experimental designs and research methods utilized in psychology. Laboratory outcomes will be statistically analyzed and reported in APA format. Fall, Spring. M&S fee: $20.00.

PSY 3213H COS-PSYCH 4(3,2)  

PSY 3302 COS-PSYCH 3(3,0)  

PSY 3322C COS-PSYCH 3(2,2)  

PSY 3624 COS-PSYCH 3(3,0)  

PSY 3630 COS-PSYCH 3(3,0)  

PSY 3951 COS-PSYCH 1.9(3-30)  
Undergraduate Field Work: PR: Senior standing and C.I. Placement in a community agency for supervised experience in applications of psychology to community problems. May be repeated for credit. Graded S/U. Fall, Spring.

PSY 4025 COS-PSYCH 3(3,0)  
The Psychology of Art: PR: PSY 2012, and ARH 2051 or ARH 2501. An examination of the psychological perspectives on art to gain a greater understanding and enhanced appreciation for the process and products of creativity. Occasional.
RED 3310  ED-CFCS  3(3,0)  Emerging Literacy:  PR: Admission to program, or C.I.  Investigates emergence of readingwriting processes during preschool, kindergarten, and early first grade years.  Spring.

RED 4043  ED-TLP  3(3,0)  Content Reading in Kindergarten through Grade 12:  PR: Admission to the teacher education program and junior or senior class standing.  Content literacy in the K-12 school curriculum: principles, strategies, assessment, and promoting practices.  Fall, Spring.

RED 4311  ED-CFCS  3(3,0)  Development of Literacy:  PR: RED 3310.  Methods for development of reading and writing process during primary (first - third) grades.  Fall.

RED 4519  ED-TLP  3(3,1)  Diagnostic and Corrective Reading Strategies:  PR: RED 3012 or C.I. and admission to Phase II.  An investigation of the needs of individual learners in reading instruction.  Organization and techniques for promoting optimum reading growth.  Concurrent school experiences required.  Fall, Spring.

RED 5147  ED-TLP  3(3,0)  Developmental Reading:  PR: EDG 4323.  Principles, procedures, organization, and current practices in the elementary reading program.  Materials and methods of instruction.  Fall, Spring.

RED 5514  ED-TLP  3(3,1)  Classroom Diagnosis and Development of Reading Proficiencies:  PR: RED 5147 or equivalent.  Classroom diagnosis and corrective teaching in reading: instructional materials.  Case study required.  Even Fall, Spring.

REE 3043  BA-FIN  3(3,0)  Fundamentals of Real Estate:  PR: Junior standing.  Application of basic tools of economics, finance, and marketing to solve private and public sector real estate problems.  Fall, Spring.

REE 3433  BA-FIN  3(3,0)  Real Estate Law:  PR: Junior standing.  An analysis of real estate law with emphasis on Florida statutes and case law.  Fall, Spring.

REE 4103  BA-FIN  3(3,0)  Real Estate Appraisal and Valuation:  PR: FIN 3403.  Focus on the fundamentals of real estate valuation utilizing tools of financial and economic analysis.  Occasional.

REE 4203  BA-FIN  3(3,0)  Commercial Real Estate Finance:  PR: FIN 3403.  Open to majors or minors which require this course.  The practice of commercial real estate finance; emphasis on lender and borrower decision making and secondary markets.  Occasional.

REE 4204  BA-FIN  3(3,0)  Residential Real Estate Finance:  PR: FIN 3403.  Open to majors or minors which require this course.  Study of the practice of residential real estate finance; emphasis on lender and borrower decision making and secondary markets.  Fall, Spring.

REE 4303  BA-FIN  3(3,0)  Real Estate Investment Analysis:  PR: FIN 3403.  Focus on real estate decision-making in the private sector utilizing tools of financial and economic analysis.  Fall, Spring.

REE 4732  BA-FIN  3(3,0)  Real Estate Development:  PR: FIN 3403.  The real estate development process, from the inception of a project through to lease-up, long-term financing, and final sale to the investment community.  Fall.

REL 2300  CAH-PHIL  3(3,0)  World Religions:  Basic features and historical background of Confucianism, Taoism, Hinduism, Buddhism, Judaism, Christianity, and Islam.  Fall, Spring.


REL 3111  CAH-PHIL  3(3,0)  Religion and Philosophy ThroughFilm:  PR: ENC 1102 and either PHI 2010 or REL 2300 or FIL 1001.  Religious and philosophical themes encountered in contemporary film.  It unites religion, philosophy and film by means of a critique of cultural productions of meaning, value and purpose.  Occasional.

REL 3115  CAH-PHIL  3(3,0)  Religion, Spirituality, and Popular Music:  PR: HUM 2210 or REL 2300.  Contemporary spiritual sensibilities encountered at the intersection of religion, philosophy, and popular music.  Odd Fall.


REL 3162  CAH-PHIL  3(3,0)  Healing: Culture, Art and Praxis:  PR: Junior standing.  A theory of the culture-specific nature of illness, including soul loss, spirit intrusion and the medicalization of deviance.  Occasional.

REL 3340  CAH-PHIL  3(3,0)  Buddhist Thought:  PR: HUM 2230 or REL 2300 or C.I.  Teachings of Buddhism and their contemporary applications.  Odd Fall, Spring.

REL 3432  CAH-PHIL  3(3,0)  Roots of Western Mysticism:  PR: HUM 3421, HUM 3405, HUM 3552, HUM 3553, HUM 4203, HUM 4554, PHI 3100, or PHI 3200.  Ancient, medieval, and early modern European mysticism, and its influences on religious, philosophical, artistic, and scientific thought in the West.  Even Fall, Odd Spring.

REL 4110  CAH-PHIL  3(3,0)  Religion and the Arts:  PR: At least one of the following: HUM 2210, HUM 2230, ARH 2050, ARH 2051, or REL 2000.  Art, music, dance, and ritual practices in religious traditions, with an emphasis on contemporary society.  Occasional.

REL 4901  CAH-PHIL  1(1,0)  Portfolio:  PR: Final semester as Humanities/Religious Studies track major.  Presentation of a representative sampling of a student's best undergraduate work, with appropriate revision, including a cover narrative indicating development of knowledge and skills in the subject area.  Graded S/U.  Occasional.

REL 4910  CAH-PHIL  3(3,0)  Senior Research Seminar:  PR: Senior standing and Religion Studies track major.  Capstone course on research, developing effective oral and written communication skills.  Occasional.

RET 3026C  HPA-HP  4(3,3)  Introduction to Respiratory Care:  PR: Admission to the professional upper-division Respiratory Therapy Program.  Fundamental respiratory principles and practices will be studied.  Introduction to the profession and basic methods are covered.  Lecture and lab.  M&S fee: $45.00

RET 3174  HPA-HP  3(3,0)  Pediatric Respiratory Care:  PR: RET 3026C.  The study of childhood respiratory diseases, congenital problems, infections, metabolic disorders, and AIDS.  Spring.

RET 3264C  HPA-HP  3(2,3)  Mechanical Ventilation:  PR: RET 3026C.  Function and use of mechanical ventilators, patient evaluation methods.  All forms of ventilatory support will be studied.  Lecture and laboratory.  Occasional.

RET 3483C  HPA-HP  3(2,1)  Respiratory Clinical Assessment:  PR: RET 3026C or C.I.  Demonstration of physical assessment techniques, critical thinking, chest radiology and other laboratory techniques, polysomnography and clinical documentation.  Includes Internet work.  Spring.


RET 3875  HPA-HP  8(1,24)  Clinical Practice II:  PR: C.I.  Patient care with advanced respiratory equipment.  Tracheostomy care.  Introduction to cardiopulmonary resuscitation.  Introduction to critical care units.  Advanced life support techniques and equipment.  Fall.


RET 4284  HPA-HP  3(3,0)  Cardiopulmonary Diagnostics I:  PR: RET 4244.  Non-invasive cardiac diagnostics, including echocardiography, nuclear cardiology, and stress testing.  Fall.

RET 4285  HPA-HP  3(3,0)  Cardiopulmonary Diagnostics II:  PR: RET 4244 and RET 4284.  Invasive cardiac diagnostic and therapeutic measures, including cardiac catheterization, PTCA, streptokinase use, and heart surgery.  Spring.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Meeting</th>
<th>M&amp;S Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>RET 4441</td>
<td>Vascular Ultrasound: Study of application of ultrasound in the diagnosis of vascular diseases. Includes doppler and color flow doppler examination of arterial and venous systems. Occasional.</td>
<td>4(3,3)</td>
<td>Fall, Spring.</td>
<td>$28.00</td>
</tr>
<tr>
<td>RET 4443</td>
<td>Advanced Cardiac Ultrasound: PR: RET 4284 or C.I. Study of advanced applications of ultrasound in the diagnosis of cardiac abnormalities. Two-dimensional echo, conventional doppler, and color doppler covered. Occasional.</td>
<td>4(3,3)</td>
<td>Fall, Spring.</td>
<td>$28.00</td>
</tr>
<tr>
<td>RET 4503</td>
<td>Chest Medicine: PR: RET 3026C. Disease states treated medically in conjunction with one or more modalities of radiologic therapy. Spring.</td>
<td>3(3)</td>
<td>Fall, Spring.</td>
<td>$28.00</td>
</tr>
<tr>
<td>RET 4536</td>
<td>Cardiopulmonary Rehabilitation: PR: RET 3026C &amp; RET 3484C or C.I. Principles underlying the development, implementation, and management of a comprehensive cardiopulmonary rehabilitation program. Spring.</td>
<td>3(3)</td>
<td>Fall, Spring.</td>
<td>$28.00</td>
</tr>
<tr>
<td>RET 4715</td>
<td>Neonatal Medicine: PR: RET 3714C or C.I. Fetal development, prenatal physiology, gas transport in the fetus and newborn. Congenital abnormalities, infections, diseases of the newborn. Resuscitation of the neonate. Fall.</td>
<td>3(3)</td>
<td>Fall, Spring.</td>
<td>$28.00</td>
</tr>
<tr>
<td>RET 4876</td>
<td>Clinical Practice Il: PR: RET 3875. Care of patients with more complex diseases. Pulmonary function studies. Pediatric and neonatal critical care. Echo and cardiac catheterization. Emergency and trauma. Spring.</td>
<td>8(1,24)</td>
<td>Fall, Spring.</td>
<td>$28.00</td>
</tr>
<tr>
<td>RET 4934</td>
<td>Selected Topics in Respiratory Therapy: PR: C.I. Current topics of adult critical care, as they apply to the advanced study of respiratory therapy. Spring.</td>
<td>2(2,0)</td>
<td>Fall, Spring.</td>
<td>$28.00</td>
</tr>
<tr>
<td>RET 5910</td>
<td>Research Methods in Cardiopulmonary Physiology: Introduction to methods used in scientific and medical research in cardiopulmonary physiology. Literature review, experimentation, and data analysis. Occasional.</td>
<td>3(3)</td>
<td>Fall, Spring.</td>
<td>$28.00</td>
</tr>
<tr>
<td>RMI 3011</td>
<td>Principles of Risk and Insurance: PR: FIN 3403. Emphasis on risk insurance as a risk-handling device, with attention given to risk assumption, risk avoidance, and loss prevention. Spring.</td>
<td>3(3)</td>
<td>Fall, Spring.</td>
<td>$28.00</td>
</tr>
<tr>
<td>RTE 3000</td>
<td>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. Fall.</td>
<td>3(3)</td>
<td>Fall, Spring.</td>
<td>$28.00</td>
</tr>
<tr>
<td>RTE 3111C</td>
<td>Introduction to Patient Care: PR: Acceptance to the program. Provides the student with fundamentals of patient care methods related to radiography. Fall. M&amp;S fee: $10.00</td>
<td>2(1,5,1,5)</td>
<td>Fall, Spring.</td>
<td>$28.00</td>
</tr>
<tr>
<td>RTE 3116</td>
<td>Advanced Patient Care: PR: RTE 3111C or C.I. Study of advanced patient care concepts and techniques associated with computed tomography, magnetic resonance imaging, mammography, pediatrics and interventional procedures. Spring.</td>
<td>3(3)</td>
<td>Fall, Spring.</td>
<td>$28.00</td>
</tr>
<tr>
<td>RTE 3308</td>
<td>Medical Physics: PR: RTE 3964C or C.I. Study of radiation production, characteristics, detection and measurement, and protection, including barrier thickness calculation and shielding. Occasional.</td>
<td>3(3)</td>
<td>Fall, Spring.</td>
<td>$28.00</td>
</tr>
</tbody>
</table>
UCF Courses and Descriptions

RTV 3000 COS-R/TV 3(3,0)
Development and Structure of Electronic Media and New Technology: PR: SPC 1600 or C.I. Nature of the media, the mechanics of operation of analog and digital systems, history, economics, programming, and internal and external controls. Fall, Spring.

RTV 3200 COS-R/TV 3(3,0)
Production Fundamentals and Aesthetics of Electronic Media: PR: or CR: RTV 3000 or C.I. Technical and creative concepts of analog and digital electronic media production for radio, television, and multimedia delivery systems. Fall, Odd Spring.

RTV 3210C COS-R/TV 4(4,3)
Audio Production I: PR: RTV 3200 and RTV Major - Production Specialization. Audio production theory and recording techniques utilizing various microphone types, and digital non-linear audio computer-based editing equipment. Fall, Spring. M&S fee: $30.00

RTV 3223C COS-R/TV 3(3,3)
Lighting for Video: PR: RTV 3228C and RTV Major - Production Specialization. Basic lighting techniques for both studio and location, single and multiple-camera video production. Odd Fall, Spring. M&S fee: $30.00

RTV 3228C COS-R/TV 4(4,3)
Studio Television Production: PR: RTV 3200 and RTV major - Production Specialization. Analog and digital television studio production including audio mixers, microphones, tape recorders, cameras, video switchers, lighting, and electronic graphics. Odd Fall, Even Spring. M&S fee: $30.00

RTV 3231C COS-R/TV 4(1,3)
Broadcast Announcing and Performance: PR: RTV Majors only, RTV 3210C or RTV 3260C or RTV 4270C or C.I. Communication problems on camera and microphone. Development of performance skills in announcing, interviewing, narrating, and reporting. Odd Fall, Spring. M&S fee: $15.00

RTV 3260C COS-R/TV 4(4,3)
Single Camera Video Production and Editing: PR: RTV 3200 and RTV Major - Production Specialization or Broadcast Journalism Specialization. Technical and aesthetic requirements of analog and digital single-camera video production and editing, including techniques for electronic news gathering (ENG) and electronic field production (EFP). Fall, Spring. M&S fee: $90.00

RTV 3263C COS-R/TV 3(3,3)
Advanced Video Post-Production: PR: RTV 3260C and RTV Major - Production Specialization. Advanced post-production techniques for analog and digital video, including A/B roll time code editing, digital video effects, electronic graphics, and non-linear video editing systems. Fall, Spring. M&S fee: $15.00

RTV 3283C COS-R/TV 3(3,1)
Production of Interactive Multimedia: PR: COS 1000C; major status in RTV, AdPR, Journalism, Organizational or Interpersonal Communication. Practice and production of electronic interactive multimedia for the broadcast industry. Odd Fall. M&S fee: $15.00

RTV 3301 COS-R/TV 3(3,0)

RTV 3304 COS-R/TV 3(3,0)
Electronic Journalism II: PR: RTV 3301, RTV 3260C, and RTV Major - Broadcast Journalism Specialization. Newswriting and newsgathering strategies learned in RTV 3301 are integrated into a newsgathering context for actual production of analog and digital radio and television news packages. Fall, Spring.

RTV 3501 COS-R/TV 3(1,2)

RTV 3942L COS-R/TV 1(0,3,9)
Practicum: PR: C.I., RTV Major, and either RTV 3210C, RTV 3228C, or RTV 3260C. Student will serve in some position of responsibility for UCF Weekly News or other RTV program. May be repeated for credit. Graded S/U. Occasional.

RTV 4206C COS-R/TV 4(4,3)
Television Directing: PR: RTV 3228C and RTV Major - Production Specialization. Preparation and direction of programs, using both digital and analog resources. Emphasis on dramatic value and composition. Fall, Even Spring. M&S fee: $30.00

RTV 4211C COS-R/TV 3(3,3)
Audio Production II: PR: RTV 3210C and RTV Major. Creating the sound design and multiple track recording in the analog and digital domain. Occasional. M&S fee: $15.00

RTV 4270C COS-R/TV 3(3,3)
Radio Production and Programming: PR: RTV 3200 and RTV Major - Production or Broadcast Generalist Specialization. Study and production of current radio format. Introduces the digital network, and their effects on today's radio listener. Fall.

RTV 4280C COS-R/TV 3(3,3)
Webcasting I: PR: RTV Major and PR or CR: RTV 3283C. Presentation of broadcast material on the web. Integrates the distribution of radio, television, and web content. Occasional. M&S fee: $15.00

RTV 4281C COS-R/TV 3(3,3)
Webcasting II: PR: RTV 4280C and RTV Major. Production of digital media in conjunction with other RTV production activities to repurpose broadcast content for delivery on the web. Occasional. M&S fee: $15.00

RTV 4320C COS-R/TV 3(1,3)
Television News: PR: RTV 3304 and RTV Major - Broadcast Journalism Specialization. Production of weekly campus newscast. Daily newsgathering and production decisions are conducted by students under the advisement of the instructor functioning as news director. Fall, Spring. M&S fee: $15.00

RTV 4322C COS-COMM 3(1,3)
Advanced TV News: PR: RTV 3200 and RTV Majors only and C.I. Supervised broadcast news experience and/or practice in the weekly UCF News program. Occasional.

RTV 4403 COS-R/TV 3(3,0)
Electronic Media, Technology, and Society: PR: or CR: RTV 3000. Theories of mass communication, mass communication effects, and emerging communication technologies, including digital media. Fall, Spring.

RTV 4503 COS-R/TV 3(3,0)
Sports Programming on Broadcast and Cable: PR: RTV 3000 or C.I. An examination of the factors that determine how sporting events are constructed for programming on broadcast stations and cable systems. Occasional.

RTV 4505 COS-R/TV 3(3,1)
Program Issues for TV & Motion Pictures: PR: RTV 3000 or FIL 2400. An examination of program development theories, strategies and issues in the television and motion picture industries. Occasional.

RTV 4700 COS-R/TV 3(3,0)
Regulation of Broadcasting: PR: RTV Majors only, RTV 3000. Federal, state, local and self-regulatory agencies and practices which govern electronic media. Fall.

RTV 4800 COS-R/TV 3(3,0)
Broadcast Management: PR: RTV Majors only, RTV 4700. Examination of broadcast management problems in station operations at local, regional, and national levels. Odd Spring.

RUS 1120 CAH-LANG 4(4,1)
Elementary Russian Language and Civilization I: Introduces the student to Russian culture through the major language skills. Listening, speaking, reading and writing. Open only to students with no experience in this language. Occasional.

RUS 1121 CAH-LANG 4(4,1)
Elementary Russian Language and Civilization II: PR: RUS 1120 or equivalent. Continuation of RUS 1120. Occasional.

RUS 2200 CAH-LANG 3(3,1)

RUS 2201 CAH-LANG 3(3,0)
 Intermediate Russian Language and Civilization II: PR: RUS 2200 or equivalent. Continuation of RUS 2200, with emphasis on Russian civilization. Occasional.

RUS 2210 CAH-LANG 3(3,0)
Intensive Russian Conversation: PR: One year of Russian or equivalent. Practical use of the language, leading toward fluency and correctness in speaking. Occasional.

RUS 3240 CAH-LANG 3(3,0)
Russian Conversation: PR: RUS 2201 or equivalent. Development of skills in conversation and comprehension through practice. Occasional.

RUS 3760 CAH-LANG 3(3,0)

SCE 3310 ED-TLP 3(3,0)
Teaching Science in Elementary School: PR: Junior standing or C.I. Selected concepts; organizing for instruction; evaluation procedures. Fall, Spring. M&S: $5.25

SCE 4023 ED-CFCS 3(3,0)
Teaching Science and Technology to Young Children: Provides the knowledge and skills needed to plan and implement a discovery science/design technology program for young children in an integrated, interactive curriculum. Fall.

SCE 4360 ED-TLP 4(3,2)
Science Instructional Analysis: PR: EDG 4323 or C.I. Course objectives for a school curriculum and methods and materials for the middle grades and high school. Fall, Spring. M&S fee: $8.00
Examination of literature relating to prejudice toward ethnic groups.

Issues and Methods in Secondary School Science: PR: EDG 6238 or C.I. Secondary science education special methods course is designed to augment students’ understanding of instructional methods and their applications to middle and high school science curriculum. Fall, Spring.


Space Science for Educators: PR: Senior standing or C.I. Introduction to space science, manned space flight, and space education curriculum. Occasional.

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. Fall, Spring.

Student Organization Leadership: Application of leadership and organizational development paradigms, theories, and approaches for emerging and established student leaders. Occasional.

Overview of Select Medical Careers: An overview of the pre-profession processes for careers in medicine, dentistry, veterinary, optometry, pharmacy, podiatry, and chiropractic. Spring.


The Psychology of Racial Prejudice: PR: PSY 2012. Examination of literature relating to prejudice toward ethnic groups; effects of racism on individuals, development and maintenance of prejudice, and possible ways to reduce prejudice. Even Spring.

Psychology of Women: PR: PSY 2012. Examination of the psychological impact of changing sex roles on women in modern society. Topics include child rearing, working women, and sex differences in personality and cognition. Fall, Spring.

Legal Aspects of Psychology: PR: PSY 2012 or SYG 2000; PPE 3003 or C.I. Ethical and legal dilemmas and issues in the practice of psychology. Fall.


Advanced Social Psychology: PR: SOP 3004, graduate status or senior standing, or C.I. The major findings and theories in social psychology including an in-depth review of relevant research. Occasional.

Introduction to Social Services: Introduction to social services, with emphasis on the role of the professional social worker and current career opportunities. Fall.


Social Work & Community Resources: PR: Jr. Standing or C.I, open to non-majors. Generalist social work practice, including the structure of American social welfare, values and ethics of social work and community resources. Fall.


Practice II: PR: SOW 3300 or C.I. Study of social work roles, interventions, and issues related to helping patients in health settings. Fall.

Field Education Seminar: PR: Completion of required courses in major: GPA 2.5 in major. CR: SOW 4522. Supervised learning experiences in agencies that relate social work practice to theory, requiring 420 clock hours in the field. Graded S/U. Spring.

Field Education: PR: Completion of required courses in major: C.R: SOW 4510. Weekly seminar to examine the field experience and to relate theory with practice situations. Spring.

Social Work in Health Settings: PR: SOW 3300 and SOW 3104 or C.I. Study of social work roles, interventions, and issues related to helping patients in health settings. Fall.

Social Services for the Elderly: PR: SOW 3300, SOW 3104, or Gerontology Certificate Major or C.I. Development of interventional skills for obtaining, providing, and improving social services in behalf of elderly persons and their families. Fall.

Child Abuse: Treatment and Prevention: PR: SOW 3300 and Admission to BSW program or C.I. The social worker’s role and interventions with victims of child abuse and their family members. Spring.


Intervention with Substance Abusers: PR: Junior Standing. Strategies for working with persons who abuse alcohol, other drugs and substances. Fall, Even Spring.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 4730</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Documentation in Social Work Practice: PR: SOW 3300 and SOW 3352. For Social Work majors only. Development of documentation skills for the delivery of social work services in various agency settings. Fall.</td>
</tr>
<tr>
<td>SOW 5105</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Human Behavior and Social Environment I: Individual: PR: Admission to MSW program. Study of human development and psychosocial functioning of individuals at various life stages with particular attention to implications of human diversity. Fall.</td>
</tr>
<tr>
<td>SOW 5106</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Human Behavior and Social Environment II: Social Systems: Study of the patterns and dynamics of families, groups, organizations, and communities from a social work and a systems perspective. Spring.</td>
</tr>
<tr>
<td>SOW 5109</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Violence Against Women: A Global Perspective: PR: Graduate status or C.I. An introduction to the types of violence that impact women from a global perspective. Community, political, and economic issues that support violence against women will be discussed by country, ethnic group within countries, and religious principles. Odd Fall.</td>
</tr>
<tr>
<td>SOW 5132</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Diverse Client Populations: Study of human diversity, focusing on the needs, resources, problems, and service issues of several identified minority client populations. Spring.</td>
</tr>
<tr>
<td>SOW 5235</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Social Welfare Policies and Services: Study of societal responses to human needs; forces shaping social welfare systems; introduces frameworks for analyzing social policies and services. Fall.</td>
</tr>
<tr>
<td>SOW 5305</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Social Work Practice I: Generalist Practice: Study of social work functions, knowledge, values, roles and skills; the use of a generalist model of practice. Fall.</td>
</tr>
<tr>
<td>SOW 5306</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Social Work Practice II: Intervention Approaches: Study of selected social work theories, strategies, and techniques for helping people and improving system responsiveness to human needs. Spring.</td>
</tr>
<tr>
<td>SOW 5355</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Studies in Social Work Practice: PR: C.I. Analysis of one or more urban practice issues and approaches. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>SOW 5387</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>nonprofit Resource Development: PR: Admission to certificate program or C.I. Resource Development in nonprofit organizations, including board development and leadership, volunteer program development, staff development, grant funding, fundraising, marketing, and government contract development and management. Occasional.</td>
</tr>
<tr>
<td>SOW 5404</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Social Work Research: Study of group research designs in social work; quantitative analyses; and related ethical issues. Fall.</td>
</tr>
<tr>
<td>SOW 5432</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Evaluating Social Work: Study of single case designs in social work; recording methods; behavioral and standardized measures; applications to individuals, families, groups, programs, communities. Occasional.</td>
</tr>
<tr>
<td>SOW 5532</td>
<td>HPA-SOWK</td>
<td>2(2,0)</td>
<td>Generalist Field Education I: PR: Admission to MSW Program. Supervised practice of social work in an agency for 224 clock hours. Graded S/U. Fall, Even Spring.</td>
</tr>
<tr>
<td>SOW 5533</td>
<td>HPA-SOWK</td>
<td>2(2,0)</td>
<td>Generalist Field Education II: PR: MSW. Continuation of SOW 5532. Generalist Field Education I in the same field agency for 224 clock hours. Graded S/U. Odd Fall, Spring.</td>
</tr>
<tr>
<td>SOW 5534</td>
<td>HPA-SOWK</td>
<td>1(1,0)</td>
<td>Generalist Field Education Integrative Seminar I: PR: Admission to MSW program. CR: SOW 5352. Seminar designed to facilitate student integration of generalist social work practice and theory while strengthening partnerships in the community. Graded S/U. Fall.</td>
</tr>
<tr>
<td>SOW 5546</td>
<td>HPA-SOWK</td>
<td>1(1,0)</td>
<td>Generalist Field Education Integrative Seminar II: PR: Admission to MSW program. CR: Generalist Field Education II. Continuation of generalist field education integrative seminar I to facilitate student integration of generalist social work practice and theory while strengthening partnerships in the community. Graded S/U. Spring.</td>
</tr>
<tr>
<td>SOW 5603</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Social Work in Health Settings: PR: Graduate standing or C.I. Study of social work roles, interventions, and issues related to helping clients in health settings. Spring.</td>
</tr>
<tr>
<td>SOW 5604</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Medications in Social Work Practice: PR: graduate standing, post-bacc status, senior in SW program or C.I. The study of the effects that psychotropic medications can have within the counseling/helping relationship. Spring.</td>
</tr>
<tr>
<td>SOW 5605</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Social Work Practice in Mexican Culture: PR: C.I. The practice of social work in Mexican culture through cultural immersion, seminars, field visits and language instruction. Occasional.</td>
</tr>
<tr>
<td>SOW 5625</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Social Work with Women: Alternative approaches to the treatment of women in the urban setting. Occasional.</td>
</tr>
<tr>
<td>SOW 5635</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Social Work Practice in Schools: PR: Social Work Graduate standing or C.I. Study of knowledge, skills and abilities necessary for competent practice with students, their teachers, families, schools, and communities. Even Spring.</td>
</tr>
<tr>
<td>SOW 5644</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Aging in Social Situations: PR: Admission to MSW program or Gerontology Certificate Program or C.I. Knowledge about elderly in social situations or environmental context. Occasional.</td>
</tr>
<tr>
<td>SOW 5645</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Interventions with Elderly and Their Families: PR: Admission to Gerontology graduate certificate program or MSW program or C.I. Study of concepts, skills, models and theories for intervening with aged. Special attention is given to minority populations. Even Spring.</td>
</tr>
<tr>
<td>SOW 5655</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Child Abuse: Treatment and Prevention: The social worker's role and interventions with victims of child abuse and their family members. Spring.</td>
</tr>
<tr>
<td>SOW 5662</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Strategies in Employee Assistance Programs: Techniques for establishing, providing, and evaluating services to people with problems which affect job performance. Occasional.</td>
</tr>
<tr>
<td>SOW 5670</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Gay and Lesbian Experience in American Society: PR: seniors or graduate status. Sexual orientation in a cultural context: resources and policies affecting gay and lesbian people, and professional considerations in interventions with and for gay and lesbian clients. Occasional.</td>
</tr>
<tr>
<td>SOW 5712</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Interventions with Substance Abusers: Strategies for working with persons who abuse drugs, alcohol, and other substances. Odd Fall, Spring.</td>
</tr>
<tr>
<td>SOW 5713</td>
<td>HPA-SOWK</td>
<td>3(3,0)</td>
<td>Prevention and Treatment of Adolescent Substance Abuse: PR: Graduate Status or C.I. An indepth review of prevention, intervention and treatment of Adolescent Substance Abuse. Even Spring.</td>
</tr>
<tr>
<td>SPA 2631</td>
<td>HPA-COMD</td>
<td>3(3,0)</td>
<td>Spirituality in Professional Counseling: PR: graduate standing, post-bacc status, seniors, or C.I. Examination of spirituality as it relates to professional counseling. Odd Spring.</td>
</tr>
<tr>
<td>SPA 3002</td>
<td>HPA-COMD</td>
<td>3(3,0)</td>
<td>Introduction to Communicative Disorders: etiology, symptoms, and methods of diagnosing and treating communicative disorders. For beginning and prospective majors in communicative disorders. Occasional.</td>
</tr>
<tr>
<td>SPA 3011</td>
<td>HPA-COMD</td>
<td>3(3,0)</td>
<td>Speech Science I: Production: Study of how speech is produced, how it is transformed into an acoustic signal, and how that acoustic signal is measured. Fall, Spring.</td>
</tr>
<tr>
<td>SPA 3101</td>
<td>HPA-COMD</td>
<td>3(3,0)</td>
<td>Physiological Bases of Speech and Hearing: PR: SPA 3002. An introduction to the anatomical, physiological, and physical elements underlying the communication process. Fall, Spring.</td>
</tr>
<tr>
<td>SPA 3104</td>
<td>HPA-COMD</td>
<td>3(3,0)</td>
<td>Neural Bases of Communication: PR: SPA 3101. Structures and functions of the nervous system involved in communication and its disorders. Fall, Spring.</td>
</tr>
</tbody>
</table>
SPA 3112  HPA-COMD  3(3,0)
Basic Phonetics:  CR: SPA 3112L. Physiological descriptions and visual notation of standard speech patterns and regional dialects. Fall, Spring.

SPA 3112L  HPA-COMD  1(0,1)

SPA 3123  HPA-COMD  3(3,0)

SPA 3123L  HPA-COMD  1(0,1)

SPA 3471  HPA-COMD  3(3,0)
Communication Disorders in Literature and Media:  PR: PSY 2012 or SYG 2000. Exploration of communication disorders in literature and media, emphasizing psychosocial, academic, vocational, and familial challenges as well as society’s perceptions of individuals with communication disorders. Fall, Spring.

SPA 3472  HPA-COMD  3(3,0)
Guidance of Young Children with Communication Disorders:  PR: SPA 3002. Social/emotional and behavioral difficulties of children with communication disorders; positive child guidance and behavioral management strategies for clinicians and parents. Fall, Spring.

SPA 3621  HPA-COMD  3(3,0)

SPA 3632  HPA-COMD  3(3,0)

SPA 4032  HPA-COMD  3(3,0)

SPA 4052L  HPA-COMD  3(0,3)
Undergraduate Clinical Practicum:  PR: SPA 4505C, either SPA 4400 or SPA 4476, and Senior Status. Students must apply and be invited to enroll in practicum. Supervised clinical practicum for select undergraduate students in the management of language or articulation disorders. Fall, Spring. M&S fee: $45.00

SPA 4201  HPA-COMD  3(3,0)
Articulation and Phonological Disorders:  PR: SPA 3002, SPA 3112. The etiology, assessment, and management of articulation and phonological disorders, including those associated with structural variations and neuromotor disorders. Occasional. M&S fee: $15.00

SPA 4241  HPA-COMD  3(3,0)

SPA 4321  HPA-COMD  3(3,0)

SPA 4400  HPA-COMD  3(3,0)

SPA 4476  HPA-COMD  3(3,0)
Speech Disorders Across the Life Span:  PR: SPA 3002, SPA 3101, and SPA 3112. Causes and characteristics of speech and swallowing disorders in children and adults, including those affecting articulation, phonation, resonance, fluency, and feeding/swallowing. Fall, Spring.

SPA 4478  HPA-COMD  3(3,0)
Multicultural Aspects: Communication Disorders & Differences:  PR: LIN 3717. Cultural and linguistic diversity among individuals with communication disorders and differences. Special emphasis on African, Hispanic, Asian, and Native American. Fall, Spring.

SPA 4550C  HPA-COMD  5(3,2)
Clinical Methods in Communication Disorders:  PR: SPA 4201 and SPA 4400. The principles and techniques of case management with an emphasis on designing individualized treatment programs for individuals with communication disorders. Students will complete 25 observation hours. Fall, Spring.

SPA 4555  HPA-COMD  3(3,0)
Counseling in Communication Disorders:  PR: SPA 4550C. Practical interviewing and counseling in the area of Communicative Disorders. Spring.

SPA 4559  HPA-COMD  3(3,0)
Augmentative and Alternative Communication Systems:  PR: LIN 3717. The total integrated network of techniques, aids, strategies, and skills individuals use to supplement or replace inadequate natural speaking ability. Occasional.

SPA 4612  HPA-COMD  4(4,0)
Introduction to American Sign Language: Development of ASL vocabulary and grammar. Deaf culture, literature, research examined. Fall, Spring.

SPA 4613  HPA-COMD  4(4,0)

SPA 4614C  HPA-COMD  4(3,1)

SPA 4615  HPA-COMD  4(4,0)
American Sign Language II:  PR: SPA 4614C or consent of instructor. Advanced study in complex grammar, facial expression, metaphorical and idiomatic vocabulary, emphasizing production of non-voiced, conversational, spontaneous signed sentences, “reading” signed phrases and sentences. Occasional.

SPA 4617  HPA-COMD  3(3,0)
Structure of American Sign Language: PR: SPA 4612 and SPA 4613 or C.I. Study of phonologic, syntactic, semantic, and discourse structure of ASL, including an emphasis on the biological basis of language and communication. Occasional.

SPA 4626  HPA-COMD  3(3,0)
Fingerspelling:  PR: SPA 4612 and SPA 4613 or C.I. The study and practice of fingerspelling techniques to improve receptive and expressive fingerspelling proficiency beyond basic skill levels. Occasional.

SPA 4628  HPA-COMD  3(3,0)
Literature of Signed Languages: PR: SPA 2631. Overview of literature produced by Deaf communities across the world, with emphasis on the American Deaf Community. Genres include poetry, narrative, historical, and cultural prose. Occasional.

SPA 4634  HPA-COMD  3(3,0)
Educational Implications of Deafness: PR: SPA 2631. Impact of deafness on the educational process. The impact of deafness on the individual, their family, and the classroom will be discussed. Occasional.

SPA 4652  HPA-COMD  3(3,0)
Ethics of Interpreting Sign Language: PR: SPA 4612, SPA 4613, SPA 4614C. A study of the role of the interpreter, including business practices, professional conduct and interpreting settings. Occasional.

SPA 4660C  HPA-COMD  4(3,1)
Interactive Interpreting I: PR: SPA 4612, SPA 4613 and SPA 4614C or C.I. Theories, guidelines, principles and practices of interpreting, including interpreter’s role, professional behavior and interpreting ethics, and environmental considerations of interpreting situations. Occasional.

SPA 4662C  HPA-COMD  4(3,1)
Interactive Interpreting II: PR: SPA 4660C or C.I. Advanced cognitive, linguistic and motor skill development in the use of ASL. Occasional.

SPA 4803  HPA-COMD  3(3,0)
Research Methods in Communication Sciences and Disorders: PR: STA 2014C or STA 2023. Approaches, methods, and techniques of research in Communication Sciences and Disorders are considered through lecture, discussion, and group participation. Fall, Spring.

SPA 4948  HPA-COMD  3(0,3)
Community Internship: PR: SPA 4550C and Senior Status. Supervised interaction and planned activities with individuals experiencing communication disorders in community settings, including Head Start, public schools, clinics, skilled nursing and assisted living facilities. Fall, Spring.

SPA 5327  HPA-COMD  3(3,0)

SPA 5473  HPA-COMD  3(3,0)
Multicultural Aspects of Communication Differences and Disorders: PR: Graduate standing. Introduction to cultural and linguistic diversity among individuals with communication differences and disorders. Special emphasis on African, Hispanic, Asian, and Native-American cultures. Occasional.
SPA 5477 HPA-COMD 3(3,0)
Aging and Communication: PR: Senior status or CI. Study of the changes in communication with normal aging, focusing on assessment and management of older individuals with communication disorders. Occasional.

SPA 5559 HPA-COMD 3(3,0)
Augmentative and Alternative Communication Systems: PR: Senior status or CI. The total integrated network of techniques, aids, strategies, and skills individuals use to supplement or replace inadequate natural speaking ability. Fall, Spring.

SPA 5561 HPA-COMD 3 (3,0)
Counseling in Communicative Disorders: PR: Senior Status or C.I. Interviewing and counseling for individuals with communication disorders and their families. Spring.

SPA 5570 HPA-COMD 3(3,0)

SPB 3003 BA-BUS 3(3,0)
Introduction to Sport Business Management: PR: Admission to a business major. The sport industry and the principles and applications of sport business management in professional, collegiate, and Olympic sport. Occasional.

SPB 3503 BA-BUS 3(3,0)

SPB 3603 BA-BUS 3(3,0)

SPB 4104 BA-BUS 3(3,0)
Intercollegiate Sport Industry: PR: SPB 3003. The structure, evolution and governance of intercollegiate sport management and a framework for sound business decision making. Occasional.

SPB 4204 BA-BUS 3(3,0)
Professional Sport Industry: PR: SPB 3003. The structure, evolution and governance of professional sport management and a framework for sound business decision making. Occasional.

SPB 4304 BA-BUS 3(3,0)

SPB 4404 BA-BUS 3(3,0)

SPB 4704 BA-BUS 3(3,0)
Sport Business Strategy: PR: SPB 3003. The skills and knowledge applicable to the process of building and sustaining excellent sport organizations. Occasional.

SPB 4804 BA-BUS 3(3,0)

SPC 1016 COS-COMM 3(3,0)
Fundamentals of Technical Presentations: Communication theory and its application to preparing and delivering technical information in public speaking situations. Fall, Spring.

SPC 1016H COS-COMM 3(3,0)

SPC 1600 COS-COMM 3(3,0)

SPC 1600H COS-COMM 3(3,0)

SPC 3301 COS-COMM 3(1,2)
Interpersonal Communication: Nature of the communication process; variables affecting the process and the individuals involved. Analysis of communication models, inter-actant behavior, situational cues, verbal and non-verbal messages. Fall, Spring.

SPC 3425C COS-COMM 3(2,1)
Group Interaction and Decision-Making: PR: COM 3311. A study of small group processes. Attention is given to problem solving, leadership emergence, conformity behavior, and group member role responsibilities. Odd Fall, Spring.

SPC 3513 COS-COMM 3(1,2)
Argumentation and Debate: PR: SPC 1600 or C.I. Study and practice in the preparation and delivery of argumentative speeches emphasizing argument, evidence, and organization. Occasional.

SPC 3602 COS-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. Occasional.

SPC 4331 COS-COMM 3(3,0)
Nonverbal Communication: PR: COM 3311. Review of current behavioral research in such areas as proxemics, kinesics, physical characteristics, tactile communication, and paralanguage. Lectures are supplemented by frequent nonverbal exercises. Fall, Spring.

SPC 4426 COS-COMM 3(3,0)

SPC 4540 COS-COMM 3(3,0)
Attitudes and Communication: PR: COM 3311. A survey of the immediate and direct ways in which persuasive communications and social groups come to influence attitudes. Fall, Spring.

SPN 1120 CAH-LANG 4(4,1)
Elementary Spanish Language and Civilization I: PR: SPN 1120 or equivalent. Continuation of SPN 1120. Fall, Spring.

SPN 1130H CAH-LANG 4(4,1)
Honors Elementary Spanish Language and Civilization I: PR: Permission of Honors. Introduces the student to Spanish culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Fall, Spring.

SPN 1131H CAH-LANG 4(4,1)
Honors Elementary Spanish Language and Civilization II: PR: Permission of Honors and SPN 1130H or equivalent. Same as SPN 1121 with honors-level content. Occasional.

SPN 1170 CAH-LANG 8(16,10)
Elementary Spanish Study Abroad: Elementary Spanish language and civilization taught in the native environment. Occasional.

SPN 2200 CAH-LANG 3(3,1)
Intermediate Spanish Language and Civilization I: PR: SPN 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level. Fall, Spring.

SPN 2200H CAH-LANG 3(3,1)
Honors Intermediate Spanish: PR: SPN 1121 or SPN 1131H and Consent of Honors. Development of language skills and cultural knowledge at the intermediate level. With Honors content. Fall.

SPN 2201 CAH-LANG 3(3,1)
Intermediate Spanish Language and Civilization II: PR: SPN 2200 or equivalent. Continuation of SPN 2200, with emphasis on Spanish civilization. Occasional.

SPN 2240 CAH-LANG 3(3,1)
Intensive Spanish Conversation: PR: One year of Spanish or equivalent. Practical use of the language, leading toward fluency and correctness in speaking at the intermediate level. Occasional.

SPN 2241 CAH-LANG 3(3,0)

SPN 2340 CAH-LANG 3(3,0)
Spanish for Native Speakers: PR: Must be a native speaker. Intensive Spanish for native speakers who have had little or no formal training in the language. Occasional.

SPN 2511 CAH-LANG 3(3,0)
Modern Spanish Civilization Abroad: PR: SPN 1120 & 1121. This intensive course will focus on modern Spanish culture using examples from present day society. Cultural visits and reality are essential components of this course. Occasional.

SPN 3140 CAH-LANG 3(3,0)
Business Spanish I: PR: SPN 2200 and SPN 2201 or equivalent. Basic business terminology, business culture, and business topics related to the Hispanic World. Odd Fall.

SPN 3141 CAH-LANG 3(3,0)

SPN 3142 CAH-LANG 3(3,0)
Business Spanish III: PR: C.I. Continuation of Business Spanish II. Even Fall.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPN 3234</td>
<td>CAH-LANG: Advanced Directed Readings</td>
<td>3(3,0)</td>
<td>PR: SPN 2200 or C.I. Use of Spanish literary and Spanish texts in general, to develop reading comprehension and analysis skills for non-native speakers. Fall, Spring.</td>
</tr>
<tr>
<td>SPN 3300</td>
<td>CAH-LANG: Advanced Spanish Grammar and Composition</td>
<td>3(3,0)</td>
<td>PR: SPN 2201 or equivalent. Advanced Spanish grammatical topics, idiomatic expressions, and continued development of writing skills based on the newly acquired concepts. Fall, Spring.</td>
</tr>
<tr>
<td>SPN 3341</td>
<td>CAH-LANG: Advanced Spanish for Native Speakers</td>
<td>3(3,0)</td>
<td>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. Occasional.</td>
</tr>
<tr>
<td>SPN 3343</td>
<td>CAH-LANG: Advanced Rhetoric for Native Speakers</td>
<td>3(3,0)</td>
<td>PR: Third year level oral proficiency. Systematic study of Spanish grammar as applied to rhetoric in standard Spanish for native speakers only. Occasional.</td>
</tr>
<tr>
<td>SPN 3344</td>
<td>CAH-LANG: Advanced Spanish Native Fluency I</td>
<td>3(3,0)</td>
<td>PR: SPN 3300 or C.I. Advanced grammatical topics and composition skills for native or near-native fluency speakers.</td>
</tr>
<tr>
<td>SPN 3345</td>
<td>CAH-LANG: Advanced Spanish Native Fluency II</td>
<td>3(3,0)</td>
<td>PR: SPN 3344. Continuation of Advanced Spanish Native Fluency I emphasizing the remaining grammatical topics and composition skills. Spring.</td>
</tr>
<tr>
<td>SPN 3402</td>
<td>CAH-LANG: Practice in Modern Spanish Grammar</td>
<td>3(3,0)</td>
<td>PR: SPN 2241 or 3420. This intensive Spanish course will provide the advanced student with practice anddrill in modern Spanish using native texts. Occasional.</td>
</tr>
<tr>
<td>SPN 3420</td>
<td>CAH-LANG: Spanish Composition</td>
<td>3(3,0)</td>
<td>PR: SPN 2201 or equivalent. Development of skills in composition. Fall, Spring.</td>
</tr>
<tr>
<td>SPN 3512</td>
<td>CAH-LANG: Contemporary Spanish Culture Abroad</td>
<td>3(3,0)</td>
<td>PR: SPN 2241 or SPN 3420. This course will focus on contemporary Spanish culture presented through classroom lectures and discussions, assigned reading and scheduled activities. Occasional.</td>
</tr>
<tr>
<td>SPN 3760</td>
<td>CAH-LANG: Advanced Spanish Oral Communication</td>
<td>3(3,0)</td>
<td>PR: SPN 2200 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. Fall, Spring.</td>
</tr>
<tr>
<td>SPN 3850</td>
<td>CAH-LANG: Structure of the Spanish Language</td>
<td>3(3,0)</td>
<td>PR: SPN 3420. Linguistic theory applied to analysis of Spanish language. Includes systematic study of sound patterns, semantics, word formations, and socialization. Occasional.</td>
</tr>
<tr>
<td>SPN 3852</td>
<td>CAH-LANG: Bilinguismo</td>
<td>3(3,0)</td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300 or C.I. Spanish-English bilingualism in the United States. Models of language acquisition in bilinguals, domains of language use, maintenance, shift, transfer, diversity, attitudes, code-switching, attrition and contact. Occasional.</td>
</tr>
<tr>
<td>SPN 3933</td>
<td>CAH-LANG: Spanish Across the Curriculum</td>
<td>1(1,0)</td>
<td>PR: SPN 2201 or C.I. CR: concurrent enrollment in a designated course. Improvement of skills in Spanish within the student's major or minor. Open to students in all colleges. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>SPN 4143</td>
<td>CAH-LANG: Business Spanish IV</td>
<td>3(3,0)</td>
<td>PR: C.I. Advanced course in business terminology and development of advanced language skills. Odd Spring.</td>
</tr>
<tr>
<td>SPN 4410</td>
<td>CAH-LANG: Advanced Spanish Composition</td>
<td>3(3,0)</td>
<td>PR: SPN 3300, SPN 3420, SPN 3760 or C.I. Readings and written imitations of modern literary styles in the form of themes, sketches, poems, and original stories. Even Spring.</td>
</tr>
<tr>
<td>SPN 4421</td>
<td>CAH-LANG: Advanced Spanish Composition</td>
<td>3(3,0)</td>
<td>PR: SPN 3300, SPN 3420, SPN 3760 or C.I. A study of Spanish civilization and culture from Pre-Roman times to the present. Conducted in Spanish. Occasional.</td>
</tr>
<tr>
<td>SPN 4520</td>
<td>CAH-LANG: Latin American Civilization and Culture</td>
<td>3(3,0)</td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300. Students will learn the basic principles of Spanish pronunciation and perfect the correct pronunciation of Spanish through intensive practice and oral drill. Occasional.</td>
</tr>
<tr>
<td>SPN 4780</td>
<td>CAH-LANG: Spanish Phonetics</td>
<td>3(3,0)</td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Students will learn the basic principles of Spanish pronunciation and perfect the correct pronunciation of Spanish through intensive practice and oral drill. Occasional.</td>
</tr>
<tr>
<td>SPN 4800</td>
<td>CAH-LANG: Spanish-American Syntax</td>
<td>3(3,0)</td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. The course examines the structure and development of the Spanish language from its beginnings to the present, with special emphasis as it is written and spoken in Latin America and the U.S. Occasional.</td>
</tr>
<tr>
<td>SPN 4801</td>
<td>CAH-LANG: Spanish Morphologysynt</td>
<td>3(3,0)</td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Emphasizes the structure and the capacity for recognizing the differences between semantics, morphology, syntax, and phonology in the Spanish language, as well as the use and correct application of criteria when analyzing texts. Taught in Spanish. Occasional.</td>
</tr>
<tr>
<td>SPN 5502</td>
<td>CAH-LANG: Hispanic Culture of the United States</td>
<td>3(3,0)</td>
<td>PR: Graduate status or senior standing or C.I. An analysis of the salient characteristics of Spanish culture and civilization. Occasional.</td>
</tr>
<tr>
<td>SPN 5505</td>
<td>CAH-LANG: Spanish Peninsular Culture and Civilization</td>
<td>3(3,0)</td>
<td>PR: Graduate status or senior standing or C.I. A survey of the diversity found within the Spanish language with respect to phonological constraints, morphosyntax, second language influences, and historical development. Occasional.</td>
</tr>
<tr>
<td>SPN 5506</td>
<td>CAH-LANG: Spanish American Culture and Civilization</td>
<td>3(3,0)</td>
<td>PR: Graduate status or senior standing or C.I. An analysis of the salient characteristics of Spanish American culture and civilization. Occasional.</td>
</tr>
<tr>
<td>SPN 5705</td>
<td>CAH-LANG: Introduction to Spanish Linguistics</td>
<td>3(3,0)</td>
<td>PR: Graduate status or senior standing or C.I. An introduction to main concepts and methods of analysis focusing on Spanish morphology, syntax, semantics, and phonology as well as dialectology and sociolinguistics. Odd Fall.</td>
</tr>
<tr>
<td>SPN 5825</td>
<td>CAH-LANG: Spanish Dialectology</td>
<td>3(3,0)</td>
<td>PR: Graduate status or senior standing or C.I. This course is a survey of the diversity found within the Spanish language with respect to phonological constraints, morphosyntax, second language influences, and historical development. Occasional.</td>
</tr>
<tr>
<td>SPN 5845</td>
<td>CAH-LANG: History of the Spanish Language</td>
<td>3(3,0)</td>
<td>PR: Graduate status or senior standing or C.I. An overview of linguistic characteristics of Latin and its evolution into Spanish with historical development of phonetic, morphological, and syntactic properties. Occasional.</td>
</tr>
<tr>
<td>SPN 5920</td>
<td>CAH-LANG: AP Spanish Language</td>
<td>3(3,0)</td>
<td>PR: Graduate status or senior standing or C.I. An introduction to Spanish as applied to rhetoric in standard Spanish for native speakers only. Occasional.</td>
</tr>
<tr>
<td>SPT 3800</td>
<td>CAH-LANG: Spanish Translation and Interpretation</td>
<td>3(3,0)</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>SPT 3805</td>
<td>CAH-LANG: Spanish Translation and Interpretation</td>
<td>3(3,0)</td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300. Students will learn the basic principles of Spanish pronunciation and perfect the correct pronunciation of Spanish through intensive practice and oral drill. Occasional.</td>
</tr>
<tr>
<td>SPT 3809</td>
<td>CAH-LANG: Medical Spanish Translation/Interpretation</td>
<td>3(3,0)</td>
<td>PR: SPN 2241 and SPN 3420. The basic Spanish terminology, techniques and ethics in the field of medical translation and interpretation. Odd Fall.</td>
</tr>
<tr>
<td>SPT 3831</td>
<td>CAH-LANG: Spanish Legal Translation and Interpretation</td>
<td>3(3,0)</td>
<td>PR: SPN 3420 and SPN 2241. The terminology, procedures and ethics required to be a Spanish language court interpreter and translator in the legal field. May be repeated for credit. Even Fall.</td>
</tr>
<tr>
<td>SPT 4800</td>
<td>CAH-LANG: Spanish Translation Practicum</td>
<td>3(3,0)</td>
<td>PR: SPT 3800. Development of translation and interpretation skills in a professional environment. Concentration in legal, medical, and business areas. Occasional.</td>
</tr>
<tr>
<td>SPW 3000</td>
<td>CAH-LANG: Survey of Spanish Literature I</td>
<td>3(3,0)</td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works from the Middle Ages through the Eighteenth century. Fall.</td>
</tr>
</tbody>
</table>
UCF Courses and Descriptions

SPW 3101 CAH-LANG 3(3,0)  Survey of Spanish Literature II  PR: SPW 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works of the Nineteenth century to the present. Spring.

SPW 3130 CAH-LANG 3(3,0)  Survey of Latin-American Literature I  PR: SPW 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works from the colonial period to Nineteenth Century Romanticism. Fall.

SPW 3131 CAH-LANG 3(3,0)  Survey of Latin-American Literature II  PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works of the Nineteenth century from Realism to the present. Spring.

SPW 3320 CAH-LANG 3(3,0)  Modern Hispanic Theatre Workshop I  PR: C.I. Introduction to fundamental actor’s technique and practice in Spanish. Short scenes will be performed in class. Occasional.


SPW 3370 CAH-LANG 3(3,0)  Spanish Short Story  PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. A study of representative 19th and 20th-century Spanish short stories and their authors. Occasional.

SPW 4272 CAH-LANG 3(3,0)  20th Century Spanish Novel  PR: SPW 3101 or SPW 3131 or C.I. Major works by the leading authors of the 20th century. Texts selected are studied not only for their aesthetic value, but also in terms of their historical and cultural significance. Occasional.

SPW 4310 CAH-LANG 3(3,0)  Golden Age Drama  PR: SPW 3100 or C.I. A study of the drama of the Golden Age, with special emphasis on Lope, Tirso, Alarcon, and Calderon. The controversies of the Spanish theatre and its influence abroad are examined. Occasional.

SPW 4322 CAH-LANG 3(3,0)  Contemporary Iberian Theatre  PR: SPW 3100 or C.I. A study of the major playwrights and tendencies in contemporary Iberian theatre. Occasional.

SPW 4364 CAH-LANG 3(3,0)  Latin-American Narrative/Essay  PR: SPW 3100 or SPW 3130 or SPW 3131 or SPW 3370 or C.I. Study of Latin-American narrative/essay (changing topics by semester) with emphasis in 20th century texts, contrasting techniques, procedures, and literary theories. Course could be repeated for credit when topics change. Occasional.

SPW 4381 CAH-LANG 3(3,0)  Latin-American Theatre/Poetry  PR: SPW 3100 or SPW 3130 or SPW 3130 or SPW 3131 or SPW 3570. Study of Latin-American theatre/poetry (changing topics by semester) with emphasis in 20th century texts, contrasting techniques, procedures, and literary theories. Course could be repeated for credit when topics change. Occasional.

SPW 4382 CAH-LANG 3(3,0)  Central American Literature  PR: SPW 3131 or C.I. This course familiarizes the student with literary works of prominent writers from Central America. It covers the different literary periods within Central American literary history. Taught in Spanish. Occasional.

SPW 4450 CAH-LANG 3(3,0)  Spanish Literary Theory  PR: SPW 3100 and SPW 3101, or SPW 3130 and SPW 3131, or C.I. A study of textual criticism with emphasis in the theory of genre. Occasional.

SPW 4460 CAH-LANG 3(3,0)  Nineteenth Century Spanish Literature  PR: SPW 3101 or C.I. A study of the representative authors and works in Spanish Romanticism, Realism, and Naturalism. Occasional.

SPW 4600 CAH-LANG 3(3,0)  Cervantes  PR: SPW 3100 or C.I. Don Quixote. Occasional.

SPW 4720 CAH-LANG 3(3,0)  The Generation of 1898  PR: SPW 3101 or C.I. A study of the generation’s main authors and their works. Occasional.

SPW 4730 CAH-LANG 3(3,0)  Hispanic Literature of the United States  PR: SPW 3101 or SPW 3131 or C.I. Reading and study of outstanding works written by Hispanic writers of the United States. Occasional.

SPW 4770 CAH-LANG 3(3,0)  Caribbean Spanish Literature  PR: SPW 3101 or SPW 3131 or C.I. An overview of the literature of the Spanish-speaking Caribbean countries from colonial times to the present. Occasional.

SPW 4772 CAH-LANG 3(3,0)  Black Presence in Contemporary Latin American Literature  PR: SPW 3101 or SPW 3131 or C.I. Analysis and discussion of representative contemporary works of authors who have included the black character as part of their narrative. Occasional.

SPW 4773 CAH-LANG 3(3,0)  Puerto Rican Literature  PR: SPW 3100 and SPW 3101 or SPW 3130 and SPW 3111. Puerto Rican Literature from XIX Century to present. Conducted in Spanish. Occasional.

SPW 5741 CAH-LANG 3(3,0)  Contemporary Spanish American Southern Cone Literature  PR: Enrolled in Spanish M.A. Program or C.I. Regional as well as international literary cultures and disciplines in southern cone literature. Occasional.

SSE 3312 ED-TLP 3(3,0)  Teaching Social Science in the Elementary School  PR: Admission to Phase II or C.I. Selected topics, problems, and concepts; organizing for instruction; techniques; evaluation procedures. Fall, Spring.

SSE 4361 ED-TLP 4(4.0)  Social Science Instructional Analysis  PR: EDG 4323 or C.I.; CR: ESE 3940 or C.I. Analysis of secondary (grades 6-12) social science instructional programs including development of objectives, materials, processes, and assessment procedures in light of current research and practice. Fall, Spring.

SSE 5115 ED-TLP 3(3,0)  Methods in Elementary School Social Science  PR: EDG 4323. Study of instructional programs in social sciences; objectives; materials; techniques; current research; and their application in elementary school setting. Fall.

SSE 5391 ED-TLP 3(3,0)  Global Education: Theory and Practice  PR: Graduate standing or C.I. Examines the theoretical underpinnings of teaching about the world along with a variety of theoretically grounded teaching strategies for engaging students in global education. Spring.

SSE 5776 ED-TLP 3(3,0)  Democracy and Education  PR: Graduate standing or C.I. Explores the intersection of theory and practice with regard to promoting democratic life in schools. Will examine competing theories of democracy and education, investigate problem areas in schools related to democracy, and consider examples of practice. Fall.

SSE 5790 ED-TLP 3(3,0)  Inquiry and Instructional Analysis in Social Science Education  PR: Admission to M.A. program or alternative certification certificate program. Study of instructional programs in social science education and related scholarship; development of an inquiry about the intersection of theory and practice in social science teaching. Occasional.

STA 1060C COS-STAT 3(2,1)  Basic Statistics Using Microsoft Excel  Applications of Excel, manipulating data, simple variable graphs and statistics; scatterplots; probability distributions; statistical inference. Fall, Spring.

STA 2014C COS-STAT 3(2,1)  Principles of Statistics  Introduction to statistical concepts in modern society. Basic principles, frequency distributions, measures of location and dispersion, probability, statistical inference. The “NC” grading policy applies to this course. Fall, Spring.

STA 2023 COS-STAT 3(3,0)  Statistical Methods I  PR: MAC 1105 or MGF 1106. First methods course introducing probability and statistical inference, including estimation, hypothesis testing, binomial and normal distributions, sample size. Fall, Spring.

STA 2023H COS-STAT 3(3,0)  Honors Statistical Methods I  PR: Permission of Honors; Calculus desired by not necessary. Same as STA 2023 with honors-level content. Fall, Spring.

STA 3032 ECS-EMS 3(3,0)  Probability and Statistics for Engineers  PR: MAC 2312 and computer programming. Axions of probability; combinatorial and geometrical probability; probability distributions; measures of location and dispersion; sampling and sampling distributions; estimation and tests of hypotheses; engineering applications. Fall, Spring.

STA 3032H ECS-EMS 3(3,0)  Honors Probability and Statistics for Engineers  PR: MAC 2312 and honors standing. Fundamental probability and statistics principles, the underlying assumptions, the procedures for implementing and interpreting them. With honors content. Fall, Spring.

STA 3096 COS-STAT 3(3,0)  Statistical Graphics  PR: STA 2023 or STA 3032 and a knowledge of a programming language. Principles of graph construction, graphical perception, graphical methods, computer programs for graph construction. Occasional.

STA 4102 COS-STAT 3(3,0)  Computer Processing of Statistical Data  PR: STA 4163 and knowledge of a programming language. Use of packages such as SAS, BMD, SPSS for data validation, description and analysis of data, regression and analysis of variance and covariance. Fall.

STA 4130 COS-STAT 3(3,0)  Life Contingencies I  PR: STA 4183 or (new number STA 4183). Economics of insurance, utility theory, single premiums for insurance and annuities in both discrete and continuous cases. Net annual premium and net premium reserves. Fall.
STA 4131 COS-STAT 3(3,0)

STA 4163 COS-STAT 3(3,0)
Statistical Methods II: PR: STA 2023 or STA 3032. Not open to students with credit in STA 4165. Methods of analyzing data, statistical models, estimation, tests of hypotheses, regression and correlation, an introduction to analysis of variance, chi-square, and nonparametric methods. Fall, Spring.

STA 4164 COS-STAT 3(3,0)
Statistical Methods III: PR: STA 4163. A continuation of STA 4163, including further study of regression, analysis of variance and covariance and multiple comparisons. Fall, Spring.

STA 4173 COS-STAT 3(3,0)

STA 4183 COS-STAT 3(3,0)
Theory of Interest: PR: MAC 2312 (or equivalent) and STA 2023. Measurement of simple and compound interests, accumulated and present values factors. Annuities certain, yield rates, amortization schedules and sinking funds. Bonds, securities and related funds. Fall.

STA 4187 COS-STAT 3(3,0)

STA 4222 COS-STAT 3(3,0)

STA 4321 COS-STAT 3(3,0)
Statistical Theory I: PR: STA 2023 or STA 3092; CR: MAC 2313. Probability axioms, discrete and continuous sample spaces, conditional probability, independence, one-dimensional random variables, moment generating functions, transformations, jointly distributed random variables. Fall.

STA 4322 COS-STAT 3(3,0)

STA 4502 COS-STAT 3(3,0)
Nonparametric Statistical Methods: PR: STA 2023 or STA 3032. Distribution-free tests on location and dispersion, goodness of fit tests, tests of independence, measures of association, nonparametric analysis of variance. Occasional.

STA 4504 COS-STAT 3(3,0)
Categorical Data Analysis: PR: STA 4163 or STA 4165. Two-way and three-way contingency tables, odds ratios, partial association, logistic regression and log linear models. Occasional.

STA 4610 COS-STAT 3(3,0)

STA 4614 COS-STAT 3(3,0)
Statistical Quality Control: PR: STA 4323 or STA 3022. Statistical concepts and methods applied to the control of quality of manufactured products. Occasional.

STA 4672 COS-STAT 3(3,0)

STA 4675 COS-STAT 3(3,0)

STA 4676 COS-STAT 3(3,0)

STA 4852 COS-STAT 3(3,0)

STA 4939 COS-STAT 3(3,0)
Problems in Actuarial Science: PR: STA 4322. Fundamental mathematical and statistical tools for quantitatively assessing risk; application of these tools to problems in actuarial science. May be repeated for credit. Occasional.

STA 4942 COS-STAT 3(3,0)
Practicum in Actuarial Science: PR: STA 4183 or STA 5165. Discussion and presentation by actuarial practitioners. Occasional.

STA 5085 COS-STAT 3(3,0)

STA 5103 COS-STAT 3(3,0)
Advanced Computer Processing of Statistical Data: PR: STA 4163 and knowledge of a programming language, other statistical software packages; data manipulation; graphical data presentation; data analysis; creating analytical reports. Fall.

STA 5139 COS-STAT 3(3,0)
Credibility Theory and Loss Distribution: PR: STA 4322. graduate status or senior standing, or C.I. Fixed and partial credibility. The credibility premium. Exact credibility; Parametric and nonparametric estimation of credibility. Loss models for claim severities and frequencies. Aggregate claims models. Fall.

STA 5157 COS-STAT 3(3,0)
Biometry: PR: STA 2023, graduate status or senior standing, or C.I. Design and analysis of experiments with emphasis on biological/ecological application; one-way and multi-way ANOVA; regression; ordination; classification. Spring.

STA 5176 COS-STAT 3(3,0)
Introduction to Biostatistics: PR: STA 4163 or STA 4173, graduate status or senior standing, or C.I. Fixed-effects model, random-effects model, repeated measures design, logistic regression, survival analysis, Kaplan-Meier estimates, proportional hazards model. Occasional.

STA 5185 COS-STAT 3(3,0)
Advanced Theory of Interest: PR: MAC 2512 and STA 2023, graduate status or senior standing, or C.I. Measurement of interest, valuation of annuities, determination of yield rates on investments, fixed income securities, mortgages, etc. Fall.

STA 5205 COS-STAT 3(3,0)
Experimental Design: PR: STA 4154, STA 5206 or ESI 5219, and graduate status or senior standing, or C.I. Construction and analysis of designs for experimental investigations. Blocking, randomization, replication, Incomplete block designs; factorial and fractional designs; design resolution. Spring.

STA 5206 COS-STAT 3(3,0)
Statistical Analysis: PR: STA 2023, not open to students who have completed STA 4154. Graduate status or senior standing or C.I. Data analysis; statistical models; estimation; tests or hypotheses; analysis of variance, covariance, and multiple comparisons; regression and nonparametric methods. Fall.

STA 5505 COS-STAT 3(3,0)
Categorical Data Methods: PR: STA 4163 or STA 5206, and graduate status or senior standing or C.I. Considers discrete probability distributions, contingency tables, measures of association, and advanced methods, including loglinear modeling, logistic regression, McNemar's Test, Mantel-Haenszel test. Occasional.

STA 5564 COS-STAT 3(3,0)

STA 5703 COS-STAT 3(3,0)
Data Mining Methodology I: PR: STA 5103 and STA 5206, graduate status or senior standing, or C.I. Data mining to uncover valuable information through SEMMA (Sample, Explore, Model, Modify, and Access). Process with neural network and decision tree. Fall.

STA 5825 COS-STAT 3(3,0)

STA 5940 COS-STAT 1(1,0)
Statistical Advice for Researchers: PR: Graduate status or senior standing or C.I. Discussion of student-supplied statistical problem, data sources, sampling techniques, computer package usage, analysis, interpretation. May be repeated for credit. Graded S/U. Occasional.

SUR 2101C ECS-CEE 3(2,3)
Surveying: PR: MAC 2311 and Junior standing. Theory and field practice in surveying measurements and the reduction and adjustment of field data. Spring.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Department</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYA 3110</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>The Development of Social Thought: PR: Junior standing and 9 hours of upper level sociology courses or C.I. Theories concerning the nature of mankind as a &quot;social being.&quot; The nature of society from the beginnings of the scientific study of human life to World War II. Spring.</td>
</tr>
<tr>
<td>SYA 3120</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Modern Sociological Thought: PR: Junior standing and 9 hours of upper level sociology courses or C.I. A study of major European and American contributors to modern sociology since World War II. Occasional.</td>
</tr>
<tr>
<td>SYA 3400</td>
<td>COS-SOC</td>
<td>4(3,1)</td>
<td>Research Methods and Statistics: PR: SYG 2000 and one other sociology course. Fall.</td>
</tr>
<tr>
<td>SYA 4300</td>
<td>COS-SOC</td>
<td>4(3,2)</td>
<td>Research Methods: PR: SYG 2000 or SYG 2010 and SYA 3400 or C.I. Sociological data collections, sampling techniques, grant proposal development, critical evaluation of social research, and relationship between theory and social research. Fall.</td>
</tr>
<tr>
<td>SYA 4450</td>
<td>COS-SOC</td>
<td>4(3,2)</td>
<td>Data Analysis: PR: SYA 4300 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. Spring.</td>
</tr>
<tr>
<td>SYA 5625</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>ProSeminar: PR: Graduate status or senior standing or C.I. Survey of conceptual issues, methodological concerns, and findings in substantive sociological areas that currently dominate scholarly inquiry, including such topics as crime, deviance, community, alcoholism, education. Fall.</td>
</tr>
<tr>
<td>SYA 5652</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Advanced Population: PR: Graduate status or senior standing or C.I. Examines the theories, methods, and information utilized by demographers and focuses on techniques of application of those skills. Occasional.</td>
</tr>
<tr>
<td>SYD 3700</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Race and Ethnic Minorities in the United States: Theoretical analysis of the emergence, maintenance, and disruption of patterns of racial and ethnic stratification. Fall, Spring.</td>
</tr>
<tr>
<td>SYD 3751</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>North American Indian Women Today: PR: 2000 level social science course or C.I. Examination of works of modern North American Indian women within context of sovereign rights. Issues include myths, gender roles, coerced sterilization, child welfare, and economic opportunities. Occasional.</td>
</tr>
<tr>
<td>SYD 3752</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Modern Law in Indian Country: PR: 2000 level social science course or C.I. Examination of unique legal relationship between American Indian governments and state federal governments. Legal issues include criminal justice, child welfare, and land ownership. Occasional.</td>
</tr>
<tr>
<td>SYD 3800</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Sex Roles in Modern Society: The traditional and changing roles of men and women viewed in a sociological perspective. Fall, Spring.</td>
</tr>
<tr>
<td>SYD 4020</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Population: Concerned with the study of human population, its distribution, composition, and change. Occasional.</td>
</tr>
<tr>
<td>SYD 4510</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Environmental Sociology: PR: SYG 2000 or C.I. Applies the sociological perspective and sociological methods of analysis to the relationships between human behavior and the environment. Odd Spring.</td>
</tr>
<tr>
<td>SYD 4514</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Environmental Movement: PR: SYG 2000 or SYG 2010 or C.I. Origins, evolution, current status and societal impacts of the environmental movement via sociological theory, concepts and research on social movements. Occasional.</td>
</tr>
<tr>
<td>SYD 4810</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Women in Contemporary Society: PR: SYG 2000 or WST 3015 or C.I. Examination and evaluation of the status of women in the context of the major social institutions (e.g., family, education, religion, economy and politics). Fall, Spring.</td>
</tr>
<tr>
<td>SYD 5517</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Environment and Society: PR: Graduate standing or C.I. The application of sociological theory and methods to the relationships between communities, societies, and the environment. Occasional.</td>
</tr>
<tr>
<td>SYG 2000</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td>SYG 2000H</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>General Sociology: PR: Permission of Honors. Extensive honors work in the field of Sociology. Expectations, requirements, and standards are greater than for standard General Sociology. Fall, Spring.</td>
</tr>
<tr>
<td>SYG 2010</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Social Problems: Analysis of major social problems such as mental disorders, sexual deviance, racial discrimination, poverty, community disorganization, and violence. Fall, Spring.</td>
</tr>
<tr>
<td>SYG 3949</td>
<td>COS-SOC</td>
<td>0(0,8)</td>
<td>Cooperative Education in Sociology: PR: Departmental permission required before registering. Cooperative education experience in sociology. May be repeated. Graded S/U. Occasional.</td>
</tr>
<tr>
<td>SYO 3000</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Modern Sociology: PR: SYG 2000 or SYG 2010 or C.I. Exploration of contemporary sociology. Conceptual analysis and methodological techniques, presentation and utilization of sociological literature on major social institutions. Occasional.</td>
</tr>
<tr>
<td>SYO 3360</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>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. Occasional.</td>
</tr>
<tr>
<td>SYO 3410</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Sociology of Mental Illness: A sociological examination of mental illness as a social problem; legal aspects of mental illness, and the mental health professions. Occasional.</td>
</tr>
<tr>
<td>SYO 3530</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Social Stratification: PR: SYG 2000 or C.I. Study of class, status and power, cultural variations in stratification systems; patterns of mobility and change. Occasional.</td>
</tr>
<tr>
<td>SYO 4100</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Family Trends: PR: SYG 2000 or SYG 2010 or C.I. Intimate relationships, practices, trends and issues affecting today's marriages and families. Fall, Spring.</td>
</tr>
<tr>
<td>SYO 4200</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>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. Occasional.</td>
</tr>
<tr>
<td>SYO 4250</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Sociology of Education: PR: SYG 2000 or C.I. This course examines the sociological dimensions of the educational institutions, including the impact of the social structure on learning and the role of education in social change. Occasional.</td>
</tr>
<tr>
<td>SYO 4300</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>Political Sociology: Sociological analysis of political and parapolitical groups; socioeconomic variable of voting behavior; power elites; societies and systems of government. Occasional.</td>
</tr>
<tr>
<td>SYO 4400</td>
<td>COS-SOC</td>
<td>3(3,0)</td>
<td>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. Occasional.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Prerequisites</td>
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<tr>
<td>THE 3082</td>
<td>CAH-THEA 3(3,0)</td>
<td>Theatre Careers: PR: B.A. Theatre major, Sophomore standing, C (2.0) or better required in THE 2020 or THE 2000. Techniques to secure employment in theatre and related fields. Occasional.</td>
<td></td>
</tr>
<tr>
<td>THE 3110</td>
<td>CAH-THEA 3(3,0)</td>
<td>Theatre History I: PR: (THE 2020 or THE 2000) and THE 2304 and Theatre major or departmental consent. Development of theatre arts from prehistory through the 17th century. Occasional.</td>
<td></td>
</tr>
<tr>
<td>THE 3212</td>
<td>CAH-THEA 3(3,0)</td>
<td>Global Theatre: PR: Grade of C (2.0) or better required in THE 2020 or THE 2000. Theatrical arts and traditions of various countries with an emphasis on non-western cultures. Occasional.</td>
<td></td>
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<tr>
<td>THE 3230</td>
<td>CAH-THEA 3(3,0)</td>
<td>Commonality within Cultural Diversity Experienced through Theater: PR: Grade of C (2.0) or better required in THE 2020 or THE 2000. Origins and evolution of Musical Theatre from the Ancient Greeks through the present day. Occasional.</td>
<td></td>
</tr>
<tr>
<td>THE 3240</td>
<td>CAH-THEA 3(3,0)</td>
<td>Musical Theatre Survey: PR: Grade of C (2.0) or better required in THE 2020 or THE 2000. Through the study of dramatic literature, this course explores the commonality of human experience among various cultural groups. Occasional.</td>
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<tr>
<td>THE 3282</td>
<td>CAH-THEA 3(3,0)</td>
<td>Period Props and Furniture: PR: THE 2020 or THE 2000, and Theatre major or departmental consent. Viewing and discussion of major styles of architecture, ornament, fabric, and furniture that individualize the specific time and location from Egypt to Deco. Occasional.</td>
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<tr>
<td>THE 3305</td>
<td>CAH-THEA 3(3,0)</td>
<td>Dramatic Literature I: PR: (THE 2020 or THE 2000) and THE 2304 and Theatre major or departmental consent. Playscripts from Sophocles to Jonson. Occasional.</td>
<td></td>
</tr>
<tr>
<td>THE 3311</td>
<td>CAH-THEA 3(3,0)</td>
<td>Theatre History and Dramatic Literature I: PR: C (2.0) in THE 2304 and Sophomore standing. Theatre history and drama from the Greeks to the Renaissance. Occasional.</td>
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<tr>
<td>THE 3312</td>
<td>CAH-THEA 3(3,0)</td>
<td>Theatre History and Dramatic Literature II: PR: C (2.0) in THE 2304 and Sophomore standing. Theatre history and drama from French neo-classicism to modern realism. Occasional.</td>
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</tr>
<tr>
<td>THE 3313</td>
<td>CAH-THEA 3(3,0)</td>
<td>Theatre History and Dramatic Literature III: PR: C (2.0) in THE 2304 and Sophomore standing. Theatre history and drama from modern realism to present. Occasional.</td>
<td></td>
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<tr>
<td>THE 4244</td>
<td>CAH-THEA 3(3,0)</td>
<td>Musical Theatre History I: PR: B.F.A. Musical Theatre major, C (2.0) or better required in THE 2020 or THE 2000. Origins and evolution of Musical Theatre from the Ancient Greeks through the 1950s. Fall.</td>
<td></td>
</tr>
<tr>
<td>THE 4245</td>
<td>CAH-THEA 3(3,0)</td>
<td>Musical Theatre History II: PR: BFA Musical Theatre major, C (2.0) or better required in THE 4245. Origins and evolution of Musical Theatre from the 1950s through the present. Spring.</td>
<td></td>
</tr>
<tr>
<td>THE 5246C</td>
<td>CAH-THEA 3(2,2)</td>
<td>Musical Theatre: PR: grade acting 1, graduate status, or C.I. Historical study of the origins and development of musical theatre up to and including the work of Andrew Lloyd Webber. Spring.</td>
<td></td>
</tr>
<tr>
<td>THE 5248</td>
<td>CAH-THEA 3(3,0)</td>
<td>Musical Theatre in History: PR: Admission to MFA Musical Theatre Program. A chronological study of musical theatre from early Viennese operetta to the musicals of the modern age. Course will emphasize the work of composers, librettists, and lyricists as well as representative masterworks of a variety of genre. Emphasis will be placed upon historical trends and theatrical viability. Fall.</td>
<td></td>
</tr>
<tr>
<td>THE 5385</td>
<td>CAH-THEA 3(3,0)</td>
<td>Dramatic Literature for Children: PR: Admission to MFA graduate program or C.I. An in-depth study of the growth and development of dramatic literature for children. Even Fall.</td>
<td></td>
</tr>
<tr>
<td>THE 5910</td>
<td>CAH-THEA 3(3,0)</td>
<td>Research Methods in Theatre: PR: MFA and MA in Theatre. Practice knowledge, skills and techniques needed by students to conduct research to include organization, styles, footnotes, and bibliographic forms. Fall.</td>
<td></td>
</tr>
<tr>
<td>THE 5945L</td>
<td>CAH-THEA 1(0,20)</td>
<td>Theater Practicum I: PR: Graduate status or C.I. A laboratory course designed to develop students' practical working knowledge in theatre. Occasional.</td>
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<tr>
<td>THE 5946L</td>
<td>CAH-THEA 1(0,20)</td>
<td>Theater Practicum II: PR: Admission into the graduate program, Theater Practicum I, Laboratory course designed to develop students' practical working knowledge in theater. Occasional.</td>
<td></td>
</tr>
<tr>
<td>TPA 2000C</td>
<td>CAH-THEA 3(2,2)</td>
<td>Theatre Design Basics: PR: BFA Design/Tech or Stage Management major, C (2.0) or better required in THE 2020 or THE 2000. Basic design skills for scenic, lighting and costume designers using color, grayscale, textures and symmetry to create a strong stage presence. Fall.</td>
<td></td>
</tr>
<tr>
<td>TPA 2011C</td>
<td>CAH-THEA 3(2,2)</td>
<td>Theatre Rendering: PR: B.F.A. Design/Tech or Stage Management major, C (2.0) or better required in THE 2020 or THE 2000. Specific rendering techniques used to create visual images for scenic, lighting, and costume designers. Spring.</td>
<td></td>
</tr>
<tr>
<td>TPA 2201</td>
<td>CAH-THEA 2(0,2)</td>
<td>Technical Theatre Production: PR: B.A. Theatre or B.F.A. Musical Theatre/Acting major, C (2.0) or better required in PR: or CR: THE 2020 or THE 2000, and PR: or CR: TPA 2201L. Development, theory and practice of all areas of technical theatre production. Fall, Spring.</td>
<td></td>
</tr>
<tr>
<td>TPA 2210</td>
<td>CAH-THEA 3(3,0)</td>
<td>Stagecraft I: PR: BFA Design/Tech or Stage Management major, C (2.0) or better required in PR: TPA 2210L. Development, theory, and practice of technical theatre production. Fall.</td>
<td></td>
</tr>
<tr>
<td>TPA 2210L</td>
<td>CAH-THEA 1(0,6)</td>
<td>Stagecraft I Lab: CR: TPA 2210. Practical projects in scenic construction. Occasional.</td>
<td></td>
</tr>
<tr>
<td>TPA 2211</td>
<td>CAH-THEA 3(3,6)</td>
<td>Stagecraft II: PR: THE 2020 or THE 2000, TPA 2210,Restricted to B.F.A. Theatre majors. Continuation of TPA 2210 Production crew as required. Spring. M&amp;S fee: $15.00</td>
<td></td>
</tr>
<tr>
<td>TPA 2211L</td>
<td>CAH-THEA 1(0,6)</td>
<td>Stagecraft II Lab: CR: TPA 2211L. Practical projects in scenic and property construction. Occasional.</td>
<td></td>
</tr>
<tr>
<td>TPA 2220</td>
<td>CAH-THEA 3(2,2)</td>
<td>Stage Lighting: PR: THE 2020 or THE 2000 and BFA Design/Tech or Stage Management majors. 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. Fall.</td>
<td></td>
</tr>
<tr>
<td>TPA 2290L</td>
<td>CAH-THEA 1(0,VAR)</td>
<td>Theatre Participation-Production I: PR: Grade of C (2.0) or better required in TPA 2290L and TPA 2200L, or TPA 2210 or departmental consent. Participation in UCF Theatre productions. May be repeated for credit 8 times. Fall, Spring.</td>
<td></td>
</tr>
<tr>
<td>TPA 2600</td>
<td>CAH-THEA 3(3,0)</td>
<td>Stage Management Basics: PR: C (2.0) in THE 2020 or THE 2000, and BFA Stage Management major. Functions and responsibilities of professional stage managers. Occasional.</td>
<td></td>
</tr>
<tr>
<td>TPA 3040</td>
<td>CAH-THEA 3(2,2)</td>
<td>Costume Design for Theatre I: PR: Grade of C (2.0) or better required in TPA 3040. Projects in the fundamentals of costume design for the stage. Fall.</td>
<td></td>
</tr>
<tr>
<td>TPA 3043C</td>
<td>CAH-THEA 3(3,1)</td>
<td>Costume History I: PR: Theatre major or departmental consent, C (2.0) or better required in PR: or CR: THE 3043C. Costume fashion from ancient Egypt to the mid 17th century. including basic period silhouette, costume parts and accessories. Fall.</td>
<td></td>
</tr>
<tr>
<td>TPA 3044C</td>
<td>CAH-THEA 3(3,1)</td>
<td>Costume History II: PR: Restricted to Theatre majors or departmental consent, C (2.0) or better required in TPA 3044C. Costume Fashion from the mid 17th century to the present, including basic period silhouette, costume parts and accessories. Spring.</td>
<td></td>
</tr>
</tbody>
</table>
TPA 3060C  CAH-THEA  3(2,2)  Scenic Design for Theatre I:  PR: Grade of C (2.0) or better required in TPA 2010. Projects in the fundamentals of scenic design for the stage. Fall.

TPA 3061  CAH-THEA  3(2,2)  Scene Design II:  PR: Restricted to B.F.A. technical Theatre/design majors or Departmental consent, C (2.0) or better required in TPA 3060C. Continuation of TPA 3060C. 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. Spring.

TPA 3077  CAH-THEA  3(2,2)  Scene Painting:  PR: Grade of C (2.0) or better required in TPA 2000C and TPA 2071C. Projects in scene painting techniques. Fall.

TPA 3195  CAH-THEA  3(3,0)  Theatre Studio/Design:  PR: Junior standing, Theatre major or C.I. Study, analysis and execution of technical/design aspects for playscripts produced on UCF mainstage. May be repeated for credit. Occasional.

TPA 3197  CAH-THEA  3(3,0)  Summer Theatre Studio/Design:  PR: Departmental consent. Production assignments and responsibilities during the rehearsals/performances of play scripts produced on the UCF mainstage. May be repeated for credit. Occasional.

TPA 3221  CAH-THEA  3(2,2)  Lighting Design for Theatre I:  PR: Grade of C (2.0) or better required in TPA 2010. Projects in the fundamentals of lighting design for the stage. Spring.

TPA 3230  CAH-THEA  3(2,2)  Costume Construction:  PR: BFA Design/tech or Stage Management major or Department Consent, C (2.0) or better required in TPA 2210 or TPA 2290L. 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. Spring.

TPA 3249  CAH-THEA  2(2,2)  Advanced Makeup Techniques:  PR: Restricted to B.F.A. Theatre majors or departmental consent, C (2.0) or better required in TPA 2248C. Lecture/laboratory study of basic techniques needed for the creation of stage and film prosthethics and masks. Occasional.

TPA 3250  CAH-THEA  2(2,2)  CADD for Theatre:  PR: Restricted to B.F.A. Theatre majors or departmental consent, C (2.0) or better required in TPA 2211. Fundamental computer aided drafting and design and its application for Theatre. Fall.

TPA 3251  CAH-THEA  2(2,2)  Advanced CADD for Theatre:  PR: Restricted to B.F.A. Theatre majors or departmental consent, C (2.0) or better required in TPA 3250. Advanced computer aided drafting and design and its application for Theatre. Spring.

TPA 3260  CAH-THEA  3(3,0)  Sound Design For the Theatre:  PR: THE 2020 or THE 2000, TPA 2211. Restricted to Theatre majors or departmental consent. Exploration of the aesthetic and technological aspects of sound as they relate to the art and craft of theatre majors. Spring.

TPA 3401  CAH-THEA  3(3,0)  Theatre Careers for Tech/Management:  PR: B.F.A. Theatre majors, Junior standing. Exploration and assimilation of successful marketing techniques needed to secure employment in Theatre or related segments of the entertainment industry. Spring.

TPA 3601  CAH-THEA  3(3,0)  Stage Management:  PR: Grade of C (2.0) or better required in TPA 2 __ (Stage Management Basics). Responsibilities of the stage manager prior to, during, and after performance as related to Departmental productions as well as professional union requirements. Fall.

TPA 4041C  CAH-THEA  3(2,2)  Costume Design II:  PR: Grade of C (2.0) or better required in TPA 3040. A continuation of Costume Design I. Costume Design including research, color, body types, and fabric to generate costume design sketches for theoretical play productions. Spring.

TPA 4224  CAH-THEA  3(3,0)  Lighting Design II for Theatre:  PR: C (2.0) in TPA 3221. Project lighting design work with an emphasis on visualization of design concepts, professional graphics, and paper work standards and practices. Occasional.

TPA 4264C  CAH-THEA  3(2,2)  Sound Design II for Theatre:  PR: C (2.0) in TPA 3260. Project sound design work with an emphasis on design communication and professional standards and practices. Occasional.

TPA 4293L  CAH-THEA  1(0, VAR)  Theatre Participation-Production III:  PR: Theatre major, C (2.0) or better required in TPA 2290L. Participation in UCF Theatre Productions. May be repeated for credit 8 times. Fall, Spring.

TPA 4400  CAH-THEA  3(3,0)  Theatre Management:  PR: Grade of C (2.0) or better required in TPA 2211. Management major or Departmental consent. Study of the development, organization, management, funding, and promotion of theatre programs. Additional emphasis placed on management theory and style. Fall.

TPA 4602  CAH-THEA  3(3,0)  Advanced Stage Management:  PR: B.F.A. Stage Management major, C (2.0) or better required in TPA 3601. Skills necessary for stage managers in contemporary entertainment. Fall.

TPA 4940  CAH-THEA  6(0,40)  Technical Theatre/Design Internship:  PR: Restricted to B.F.A. Technical Theatre/design and Stage Management majors. The internship is subject to Departmental approval. Off-campus internship programs provide opportunity for practical work in professional theatre. Contact the Departmental office for specific requirements. Occasional.

TPA 5042C  CAH-THEA  3(3,0)  Costume Design Studio:  PR: Admission into the graduate program, TPA 3043C, TPA 3044C, or C.I. Project oriented course in the advance study of Costume Design. Occasional.

TPA 5062C  CAH-THEA  3(2,2)  Scene Design Studio:  PR: Graduate status or C.I. Advanced work in the conceptualization and communication of scenic designs for the theatre. Spring.

TPA 5081  CAH-THEA  3(3,0)  Design Concepts for Youth Theatre:  PR: Admission to MFA graduate program or C.I. A study of design elements (lighting, costume, set) as they apply to youth theatre. Odd Spring.

TPA 5258C  CAH-THEA  3(2,2)  AutoCad-2D for Theatre:  PR: Admission into the MFA Design Program. Two-Dimensional computer drafting and editing techniques applicable to theatre design. Occasional.

TPA 5299C  CAH-THEA  3(2,2)  AutoCad-3D for Theatre:  PR: Admission into the graduate program and TPA 5258C. Three-dimensional computer drafting and editing techniques applicable for theatre design. Occasional.

TPA 5405  CAH-THEA  3(3,0)  Theatre Management for Non-Majors:  PR: THE 2020 or THE 2000, graduate status, or C.I. Study of university community and professional theatre management with special attention to the principles of management to include management skills/function and organizational systems/performance as they relate to theatre organizations/institutions. Fall.

TPA 5885C  CAH-THEA  2(2,2)  Puppetry:  PR: Admission to MFA graduate program or C.I. Puppetry as an art form in design and performance. Odd Spring.

TPA 5946C  CAH-THEA  1(0,20)  Design Practicum I:  PR: Admission into the MFA Design Program. Practical Experience as a member of the production team as a prop master or assistant scenic, costume, lighting, or sound designer. Occasional.

TPA 5949C  CAH-THEA  1(0,20)  Design Practicum II:  PR: Admission into the graduate program and TPA 5946C or C.I. Advanced work in the practical application of Properties and/or Design for the Theatre. Occasional.

TPP 2101  CAH-THEA  3(3,0)  Fundamentals of Acting:  PR: B.A. Theatre major, and C (2.0) or better required in THE 2020 or THE 2000. Development of imagination, self-awareness and the ability to execute basic stage tasks. Fall, Spring.

TPP 2110C  CAH-THEA  3(2,2)  Acting I - Introduction:  PR: B.F.A. Theatre major, C (2.0) or better required in THE 2020 or THE 2000. Development of imagination, self-awareness, and the ability to execute basic stage tasks. Fall, Spring.

TPP 2170C  CAH-THEA  3(2,2)  Acting II - Fundamentals:  PR: TPP 2110C, DAA 2200C, and THE 2304 and (THE 2020 or THE 2000) and (TPP 2710C or MUT 1004) and BFA Theatre Performance/Musical Theatre major. Fundamental techniques to acting, with emphasis on characterization and character development. Fall, Spring.

TPP 2185  CAH-THEA  3(3,0)  Acting for Non-majors:  Basic introduction to the fundamentals of acting with emphasis upon the development of imagination, self-awareness, sense, memory, improvisation, and the ability to execute basic stage tasks. Fall, Spring.

TPP 2190  CAH-THEA  1(0,20)  Theatre Production/Performance I:  PR: Not restricted to Theatre majors but requires departmental consent. Participation in UCF Theatre Productions. Required of all B.F.A. theatre performance majors. Fall, Spring. M&S fee: $15.00
UCF Courses and Descriptions

TPP 2260 CAH-FILM 3(3,0)
Acting for Film: PR: Film Majors. An introduction to acting for the camera. Occasional.

TPP 2700C CAH-THEA 3(2,2)

TPP 2710C CAH-THEA 2(2,1)

TPP 3103 CAH-THEA 3(3,0)
Intermediate Acting: PR: B.A. Theatre major and C (2.0) or better required in TPP 2101. Practice and execution of scene work, monologue work, and exercises. Occasional.

TPP 3172C CAH-THEA 3(2,2)
Acting III - Building the Character: PR: Grade of C (2.0) or better required in TPP 2170C. Reinforcement of acting techniques begun in Acting II, with emphasis on characterization and character development. Spring.

TPP 3197 CAH-THEA 3(0,30)
Summer Theatre/Performance: PR: Open to non-Theatre majors with departmental consent. Production assignments and responsibilities during the rehearsals/performances of play department's productions on the UCF mainstage. May be repeated for credit. Occasional.

TPP 3223 CAH-THEA 3(3,0)
Theatre Careers for Performance: PR: B.F.A. Theatre majors, Junior standing. Exploration and assimilation of successful marketing techniques needed to secure employment in Theatre or related segments of the entertainment industry. Spring.

TPP 3250 CAH-THEA 3(3,0)
Musical Theatre Acting/Performance I: PR: B.F.A. Musical Theatre major, and C (2.0) or better required in TPP 2110C. Practical acting techniques with solo musical theatre repertoire. Fall.

TPP 3252 CAH-THEA 3(3,0)
Musical Theatre Acting/Performance II: PR: B.F.A. Musical Theatre major, and C (2.0) or better required in TPP 3250. Practical acting technique as it applies to musical theatre scene study. Spring.

TPP 3257 CAH-THEA 2(2,2)

TPP 3258 CAH-THEA 2(2,2)
Musical Theatre Voice II: PR: B.F.A. Musical Theatre major, and C (2.0) or better required in TPP 3257. Artistry of singing including function of music and lyrics, and problems in song interpretation utilizing musical theatre repertoire. Fall.

TPP 3310C CAH-THEA 3(2,2)
Directing for Theatre I: PR: Theatre majors, Junior Standing, and C (2.0) or better required in THE 3212. Principles and techniques of play direction to include script selection, directional analysis, casting, composition/picturization, blocking, tempo, and rehearsal planning. Fall, Spring.

TPP 3510C CAH-THEA 2(2,1)
Movement for the Actor: PR: DAA 2200C, DAA 2201C, TPP 2110C, TPP 2170C, BFA Performance Major. Active physical exploration of relaxation, release, and strengthening exercises designed to help the actor develop a more expressive body. Fall.

TPP 3512C CAH-THEA 2(2,1)
Stage Combat: PR: Grade of C (2.0) or better required in TPP 4511C. Stage combat with emphasis on hand-to-hand combat. Spring.

TPP 3513C CAH-THEA 2(2,1)
Movement for the Actor II: PR: C (2.0) or better required in TPP 3510C. Reinforcement of techniques and practices found in Movement for the Actor I. Occasional.

TPP 3711C CAH-THEA 2(2,1)
Voice Production I: PR: Grade of C (2.0) or better required in TPP 2710C. Reinforcement of the awareness introduced in Voice I, focusing on a physical approach to acting texts. Spring.

TPP 3712C CAH-THEA 2(2,1)
Voice Production II: PR: Grade of C (2.0) or better required in TPP 3711C. Continuation of Voice Production I; emphasis on study of Shakespeare and heightened language. Fall.

TPP 3730C CAH-THEA 2(2,1)
Voice Production IV: PR: Grade of C (2.0) or better required in TPP 3712C. Analysis of dialects and regionalisms, reinforcing the study of phonetics, placement, and vocal apparatus. Fall.

TPP 3952 CAH-THEA 3(0,30)
Studio Performance: PR: Junior standing or C.I. Not restricted to Theatre majors but requires department consent. Studio performance provides the specific application of the theatre artist's training to full scale theatre productions. May be repeated for credit. Occasional.

TPP 4140C CAH-THEA 3(2,2)
Acting IV - Creating the Role: PR: Grade of C (2.0) or better required in TPP 3712C. Continued exploration and application of acting technique through scene study. Fall.

TPP 4142C CAH-THEA 3(2,2)
Acting V - Verge: PR: Grade of C (2.0) or better required in TPP 4140C. Verge drama with particular emphasis placed on scansion and verse in the plays of William Shakespeare. Spring.

TPP 4143C CAH-THEA 3(2,2)
Acting Styles: PR: Grade of C (2.0) or better required in TPP 3103 and TPP 4140C. An advanced and comprehensive view of acting styles. Occasional.

TPP 4193 CAH-THEA 1(0,20)
Theatre Production/Performance IV: PR: Not restricted to Theatre majors but requires Departmental consent. Participation in UCF Theatre productions. Required of all B.F.A. theatre performance majors. Fall, Spring. M&S fee: $15.00

TPP 4221 CAH-THEA 3(3,0)
Auditioning: PR: Junior Standing, and C (2.0) or better required in TPP 3103 and TPP 4140C. Selecting monologues, auditioning techniques and cold readings. Occasional.

TPP 4243C CAH-THEA 2(2,2)
Circus Arts: PR: Theatre major, C (2.0) in TPP 2101, and THE 202. Circus history and introduction to a wide range of circus skills. Occasional.

TPP 4244 CAH-THEA 3(3,0)

TPP 4259 CAH-THEA 2(2,2)

TPP 4265C CAH-THEA 3(2,2)
Acting VI - Acting for TV/Film: PR: B.F.A. Theatre Performance major or B.F.A. Musical Theatre major, and C (2.0) or better required in TPP 3265 or TPP 4142C. Application of previous acting training to the TV/Film medium. Fall.

TPP 4268 CAH-THEA 3(3,2)
Acting VII Advanced Acting For TV/Film: PR: Grade of C (2.0) or better required in TPP 3268C. A practical, detailed, and structured approach to acting for the camera by working on a TV/Film project. Spring.

TPP 4270C CAH-THEA 2(2,2)
Music Theatre Voice V: PR: TPP 4923 and Theatre major or departmental consent. Continuation of advanced diagnosis and development of the singing voice and its application to musical theatre performance. Spring.

TPP 4271C CAH-THEA 2(2,2)
Music Theatre Voice VI: PR: TPP 4270C and Theatre major or departmental consent. Continuation of advanced and development of the singing voice and its application to music theatre performance. Fall.

TPP 4311 CAH-THEA 2(2,2)

TPP 45310 CAH-THEA 2(2,1)
Period Movement: PR: Grade of C (2.0) or better required in TPP 3172C. Continued Movement/Dance work. Emphasis given to period styles. Fall.

TPP 4923 CAH-THEA 2(2,2)

TPP 4940L CAH-THEA 6(0, VAR)

TPP 5125C CAH-THEA 2(2,2)
Improvisation Studio: PR: Acting for Youth Theatre. A study of spontaneous dramatic play and theatre exercises designed to develop self-discipline, creative freedom and resources for the stage and classroom. Odd Fall.

TPP 5156C CAH-THEA 3(2,2)
Acting Studio A: PR: Admission to MFA Performance Program. An advanced scene study course with emphasis on scene analysis and character development and application of acting techniques in modern contemporary American plays. Fall.

TPP 5157C CAH-THEA 3(2,2)
Acting Studio II: PR: TPP 5156C or C.I. An advanced scene study course applying acting methodologies to the works of modern (1890-) European playwrights with emphasis on the works of Ibsen/Chékhov/Shaw. Spring.
TPP 5273 CAH-THEA 3(3,0) Musical Theatre Acting I: PR: Admission to MFA Musical Theatre Majors. Integrated study in musical theatre acting, singing and movement applied to musical theatre performance, direction and choreography; emphasizing developing skills in textual and musical interpretation. Occasional.

TPP 5289C CAH-THEA 2(2,2) Acting for Young Audiences: PR: Admission to MFA graduate program or C.I. A guided investigation of the principles and techniques of acting for young audiences. Even Fall.

TPP 5386 CAH-THEA 3(3,0) Directing for Young Audiences: PR: THE 5910 and Dramatic Literature for Children. Study of the principles, procedures, and practices of stage direction as it applies to theatre for young audiences. Odd Spring.

TPP 5515 CAH-THEA 2(2,0) Movement Studio I: PR: Admission to MFA Performance Program. Graduate level course in principles and methods of movement for the stage focusing on relaxation, centering, increased physical control, and physical development of a character. Fall.

TPP 5516C CAH-THEA 2(2,1) Movement Studio II: PR: TPP 5515 or C.I. Principles and methods of movement for the stage focusing on gaining specific knowledge and skills in period styles of movement and basic unarmid combat. Spring.


TPP 5555C CAH-THEA 2(2,4) Musical Theatre Dance II: PR: TPP 5554C. Advanced dance study with particular emphasis on the development and expression of characterization in dance. Spring.

TPP 5715C CAH-THEA 2(2,1) Stage Voice I: PR: Admission to MFA performance program. An introduction/review class examining the fundamentals of speaking on stage: the correct production of sound, breathing, relaxation of physical tension, and articulation. Fall.

TPP 5716C CAH-THEA 2(2,1) Stage Voice II: PR: Admission to the MFA Performance Program and TPP 5715C or C.I. Continuation of Graduate Voice Production I, studying Skinner's narrow transcription with consonants, review of all Lekladder work, and introduction to the work of Arthur Lessac. Spring.

TPP 5754 CAH-THEA 2(2,0) Musical Theatre Voice I: PR: Admission to MFA Musical Theatre Program. Voice study devoted to the diagnosis and development of the singing voice and its application to musical theatre performance placing particular emphasis upon vocal technique. Fall.

TPP 5935C CAH-THEA 2(2,2) Contemporary Practices in Young Theatre: PR: Admission to MFA graduate program or C.I. Investigation of a particular subject in youth theatre. May be repeated for credit 4 times. Odd Spring.

TSL 4080 ED-TLP 3(3,0) Theory and Practice of Teaching ESOL Students in Schools: PR: Junior standing or C.I. Focuses on methods of teaching English to Speakers of Other Languages (ESOL). ESOL curriculum and materials, cross-cultural understanding, applied linguistics in second language teaching, and test and evaluation of ESOL. Fall, Spring.

TSL 4141 CAH-LANG 3(3,0) Issues in Second Language Acquisition: PR: TSL 4080. English phonology, morphology, syntax, and semantics, for future teachers. Fall, Spring.

TSL 5143 CAH-LANG 3(3,0) ESOL Strategies: PR: Graduate status or senior standing or C.I. This course will survey cross-cultural communication and understanding, testing and evaluation, curriculum and methods of teaching ESOL to meet the needs of limited English proficient students. Occasional.

TSL 5245 CAH-LANG 3(3,0) Computers and Technology for ESOL: PR: Graduate standing or C.I. Emphasizes research in computer assisted language learning, as well as design and evaluation of software and websites for learning English as a second language. Occasional.

TSL 5345 ED-TLP 3(3,0) Methods of ESOL Teaching: This course is designed to develop understanding, knowledge and skills of the current methods used in the teaching of ESOL. Fall, Spring.

TSL 5373 ED-TLP 3(3,0) Teaching Language Minority Students in K-12 Classrooms: PR: Admission to College of Education Master of Arts Program or C.I. Teaching K-12 limited English proficient (LEP) students. Florida standards regarding cross-cultural communication, ESOL curriculum, and materials, ESOL methodology, testing and evaluation of ESOL students, applied linguistics. Fall, Spring.

TSL 5376 CAH-LANG 3(3,0) Reading and writing in a second language: PR: Graduate standing or C.I. Theoretical and pedagogical approaches to ESOL reading and writing. Occasional.

TSL 5525 ED-TLP 3(3,0) ESOL Cultural Diversity: This course is designed to identify major cultural groups represented by the LEP population in Florida schools and to understand their special needs. Occasional.

TSL 5805 ECS-CHE 3(3,0) Geometric Design of Transportation Systems: PR: TTE 4004. Study of geometric and construction design elements in the engineering of transportation systems. Occasional.

TSL 5835 ECS-CHE 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. Occasional.

WST 3015 CAH-ENG 3(3,0) Introduction to Women's Studies: PR: ENC 1102 or C.I. Interdisciplinary course introducing students to key issues and problems regarding women and gender relations in past and present societies. Fall, Spring.

WST 3460 CAH-WOM 3(3,0) Womanist Studies: PR: ENC 1102 or C.I. Interdisciplinary study of issues, perspectives, and scholarship by and about women of color. Occasional.

WST 3460H CAH-WOM 3(3,0) Honors Womanist Studies: PR: ENC 1102 and consent of Honors. Disciplines producing scholarship promoting a feminist of color perspective. With Honors content. Occasional.

WST 3500 CAH-WOM 3(3,0) Gender Issues and Community Activism: PR: WST 3015 or C.I. Feminist perspectives applied to current community issues. Interdisciplinary analysis through service learning and field research. Issues will vary. May be repeated for credit. Occasional.

WST 3561 CAH-WOM 3(3,0) Third Wave Feminisms: PR: WST 3015. Third wave feminist theories and practices with an activist focus. Even Spring.

WST 4002 CAH-WOM 1(1,0) Researching Women and Gender: PR: WST 3015 or C.I. Introduces students to scholars and research in a variety of areas pertaining to the study of women and gender relations. Occasional.
ZOO 3701C BCBS-M&M 3(1,4)
Human Gross Anatomy & Dissection Techniques: PR: ZOO 3733C. Dissection techniques of the human body to teach students the skills required for the preparation of three dimensional materials/specimens. The primary student population should be junior/senior pre health professional applicants preparing for the basic medical sciences of professional schools. Spring.

ZOO 3713C COS-BIOL 5(3,6)
Comparative Vertebrate Anatomy: PR: BSC 2010C and BSC 2011C, or C.I. The vertebrate animals, relationships of organs and systems, and their phylogenetic significance. Fall. M&S fee: $55.00

ZOO 3733C BCBS-M&M 4(3,3)
Human Anatomy: PR: BSC 2010C or equivalent. Structure of the human body. Fall. Spring. M&S fee: $15.00

ZOO 3733H BCBS-M&M 4(3,3)
Honors Human Anatomy: PR: BSC 2010C or equivalent and Consent of Honors. Basic and functional anatomy in clinically oriented way to study systems within the human body. The lab component of this honors course provides enrichment and an opportunity to view cadaver specimens. With Honors Consent. Spring.

ZOO 3736C BCBS-M&M 4(3,2)
Exercise Physiology Anatomy: PR: BSC 2010C, CI. Gross anatomy for exercise physiology majors. Fall. Spring. M&S fee: $15.00

ZOO 3744 BCBS-M&M 3(3,0)
Neurobiology: PR: BSC 2010C. Biocological principles governing the physiology of the nervous system including electrical properties, chemical signaling, cellular composition, development, injury and regeneration. Fall. Spring.

ZOO 4205C COS-BIOL 4(3,3)

ZOO 4310C COS-BIOL 4(2,6)
Vertebrate Evolution & Ecology: PR: BSC 2010C, BSC 2011C, PCB 3044, PCB 3063 or C.I. Vertebrate evolution and ecology, based on the paleontological and ecological literature. The laboratory places heavy emphasis on classification/identification and field work. Occasional. M&S fee: $45.00

ZOO 4513 COS-BIOL 3(3,0)
Animal Behavior: PR: PCB 3044. Study of the current ideas in animal behavior, including the mechanism of behavior and evolutionary explanations. Odd Fall.

ZOO 4603C COS-BIOL 5(3,4)

ZOO 4704C BCBS-M&M 4(3,1)
Clinical Neuroanatomy and Neurosciences: PR: ZOO 3733C with a B (3.0) or better. Basic and applied neurosciences with attention to normal function and pathologic states of the nervous system relevant to practice of general medicine and/or neuroscience. Fall.

ZOO 4753C BCBS-M&M 4(3,3)
Vertebrate Histology: PR: ZOO 3733C. Micronatomical detail plus appropriate developmental and functional considerations of major cell types, primary tissues, organs, and organ systems. Survey of modern animal-tissue microtechnique. Spring. M&S fee: $15.00

ZOO 5456C COS-BIOL 4(2,6)
Ichthyology: PR: ZOO 4310C, and graduate status or senior standing or C.I. Introduction to the biology of the fishes, their classification, evolution, and life histories. Occasional. M&S fee: $25.00

ZOO 5456C COS-BIOL 4(2,6)
Herpetology: PR: 6 hours of zoology, and graduate status or senior standing, or C.I. Introduction to the biology of the amphibians and reptiles, their classification, evolution, and life histories. Occasional. M&S fee: $15.00

ZOO 5475C COS-BIOL 4(2,6)
Ornithology: PR: 6 hours of zoology, and graduate status or senior standing, or C.I. Introduction to the biology of birds, their classification, evolution, and life histories. Occasional. M&S fee: $15.00

ZOO 5486C COS-BIOL 4(2,6)
Mammalogy: PR: 6 hours of zoology, and graduate status or senior standing, or C.I. Introduction to the biology of mammals, their classification, evolution, and life histories. Occasional. M&S fee: $15.00

ZOO 5517 COS-BIOL 1(1,0)
Methods for Studying Animal Behavior in Zoo Setting: PR: an animal behavior course, graduate status or senior standing, or C.I. Research techniques used to study animals in captivity. Occasional.

ZOO 5520 COS-BIOL 3(3,0)
Behavioral Ecology: PR: graduate status or senior standing, and C.I. Introduction to the field of Behavioral Ecology, which studies evolution of animal behavior in the wild. Occasional.

ZOO 5745C BCBS-M&M 4(3,3)
Essentials of Neuroanatomy: PR: Human/Comparative Anatomy, or Human/Animal Physiology or C.I. Fundamental concepts of both morphological and functional organization of the nervous system. Primary emphasis on human structure. Occasional. M&S fee: $15.00

ZOO 5815 COS-BIOL 4(4,0)
Zoogeography: PR: 8 hours of zoology, and graduate status or senior standing or C.I. Principles and concepts concerning regional patterns of animal distributions of the world, both past and present. Occasional. M&S fee: $15.00

ZOO 5881C COS-BIOL 4(3,4)
Fisheries Management: PR: ZOO 4312C, graduate status or senior standing, or C.I. Fisheries management of freshwater environments to include identification, sampling methods, farming and hatchery operations, propagation and population estimates. Occasional. M&S fee: $20.00

ZOO 5891 COS-BIOL 1(1,0)
Applied Conservation Biology: PR: Graduate status or senior standing or C.I. Examination of issues surrounding care, maintenance and tracking animals in small populations. Occasional.

ZOO 5893L COS-BIOL 1(0,3)
Reproductive Management in Zoological Environments: PR: PCB 4732, graduate status or senior standing, or C.I. Laboratory techniques used to improve reproductive success of animals in a zoological environment. Occasional.
FACULTY

The date indicates the first year of employment at the University of Central Florida.


ABDEL-ATY, MOHAMMED, Associate Professor of Engineering (1995), B.S.C.E., M.S.C.E., Ph.D. (University of California at Davis)

ABDEL, EILEEN M., Associate Professor of Social Work (1978), A.B., M.S.W., Ph.D. (Case Western Reserve University)

ABRAM, CHARLIE, Associate Professor of Art (1996), B.F.A., M.F.A. (University of Mississippi)

ACIERNO, LOUIS J., Professor of Health Sciences (Cardiopulmonary Science) (1979), B.S., M.D. (Georgetown University)

ACKLEY, TIMOTHY, Visiting Assistant Professor of Education (2002), B.S.G., M.A.T., Ph.D. (University of Florida)

ADAMS, CAROLE, Associate Professor of History (1993), B.A., M.A., Ph.D. (Harvard University)

ADAMS, KENNETH, Associate Professor of Public Affairs (2003), Ph.D (State University of New York at Albany)

AHMAD, IBRAHIM A., Professor of Statistics (1999), B.S., M.S., Ph.D. (Florida State University)

AJAYI, RICHARD A., Associate Professor of Finance (1997), B.Sc., M.B.A., Ph.D. (Temple University)

AL-DEEK, HAITHAM, Professor of Engineering (1992), B.C.E., M.S., Ph.D. (University of California at Berkeley), P.E. (Florida)

ALBERS, JUNIE, Instructor of Education (2001), B.A., M.A. (University of Central Florida)

ALDERMAN, BARBARA, Instructor University Librarian (2002), B.A., M.S. (Florida State University)

ALLEN, FRANK R., Associate Director for Administrative Services (1998), B.A., B.S., M.B.A., M.L.S. (University of Tennessee)

ALLEN, JEFFERY W., Associate Professor of Marketing (1990), B.S., M.B.A., D.B.A. (University of Kentucky)

ALLEN, KAY WILLIAMSON, Associate Professor of Education (1990), B.S., M.Ed., Ph.D. (University of South Carolina)

ALLGOOD, JANE, Assistant Professor of Social Work (2002), B.A, MSW, Ph. D. (Florida State University)

ALMEIDA, JOHN A., Associate Professor of Music (1997), B.M., M.A. (Appalachian State University)

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STEVE, FREDERICK A., Research Professor of Materials Science
A.B., M.S. (Vanderbilt University)

STONE, DIANNA L., Professor of Psychology and Management
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STONE-ROMERO, EUGENE, Professor, Management and Psychology

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WILLIS, JAYNE, Courtesy Clinical Faculty, School of Nursing (2005), B.S.N., M.S.N. (University of Florida)

WITHERINGTON, BLAIR ERENST, Research Assistant Professor, Biology (1999), B.S., M.S., Ph.D. (University of Florida)

WU, SHIN-TSON, Secondary Joint Associate Professor of Electrical and Computer Engineering (2004), B.S., Ph.D. (University of Southern California)

YOUNG, DENISE, Assistant Professor, Social Work (1990), Ph.D. (University of Michigan)

ZARDA, P. RICHARD, Research Professor of Mechanical Engineering B.A., B.S., M.S., Ph.D. (Columbia University)

ZELDOVICH, BORIS, Professor of Optics (1994), B.Sc., M.Sc., D.Sc. (Lebedev Physics Institute)

ZHANG, JIM JIAN, Clinical Faculty, Health Services Administration M.B.A., M.D., Ph.D. (Oxford University)

ZIGLAR, MICHELE K., Assistant Professor, School of Nursing (2002).

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ABNEY, BARBARA COMPTON, Assistant Director, Marketing/Communications (1997), BS in Journalism (University of Florida)

ARMACOST, ROBERT L., Director, University Analysis and Planning, and Associate Professor of Engineering (1991), B.S., M.S.O.R., D.Sc. (George Washington University)


BAKER, BARRY J., Director, University Libraries (1997), B.A., M.L.S. (Louisiana State University)

BALKANOFF, JANET P., Director, Equal Opportunity and Affirmative Action Programs (1980), B.S., M.S.P.A. (Florida State University)

BARNICKEL, AMY, Senior Executive Assistant to the President (1994), B.A., M.A. (University of Central Florida)

BARNES, BETH, Vice President and Chief of Staff, Office of the President, and Associate Professor of English (1968), B.A., M.A., Ph.D. (University of North Carolina at Chapel Hill)

BERSIA, JOHN, Global Perspectives (2001), M.A., M.S. (London School of Economics)

BESLEY, NANCY, Executive Director of Florida Foundation for Future Scientists (2000), B.A., M. Ed. (University of Central Florida)

BISHOP, PATRICIA J., Vice Provost and Dean of Graduate Studies and Professor of Engineering (1978), B.S.E., M.S.M.E., Ph.D. (Purdue University), P.E. (Florida)

BOYD, WENDY L., Assistant Director, Office of Graduate Recruiting (1996), B.S.S., M.A. (West Virginia University)

BONTA, LINDA B., University Controller (1998), B.S.B.A., M.A. (University of Central Florida)

BORDEN, MA. PAIGE, Director of Institutional Research and University Data Administrator (1996), B.A., M.B.A., Ed.D. (University of Central Florida)

BROWN, VICTORIA, University Ombuds Officer (1990), B.A. (University of Central Florida)

CEPERO, TANYA, Coordinator of REACH Peer Education Program (2000), B.S., M.S., CHES, CAAP-2 (University of Central Florida)

CHAPIN, LINDA, Director, Metropolitan Center for Regional Studies (2001), B.A. (Michigan State University)

CHASE, DIANE Z., Interim Assistant Vice President, International and Interdisciplinary Studies, and Professor of Anthropology (1984), B.A., Ph.D. (University of Pennsylvania)

CHAVIS, GORDON D., Jr., Assistant Vice President for Undergraduate Admissions and Student Financial Assistance (1999), B.A., J.D. (Georgetown University)

CHEREPOW, SANDRA M., Senior Administrative Assistant to the President (1972), A.A. (Becker Junior College)

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COLE, W. SCOTT, General Counsel (2002), B.S., J.D. (University of Florida)

DEES, DAVID R., Associate Dean, Enrollment and Academic Services, and Associate Professor of Sociology (1972), B.A., M.A., Ph.D. (University of Notre Dame)

DIEBLER, MARCIA A., Interim Director of Creative School for Children (1982), B.S. (Ashland University)

DONEGAN, HELEN, Vice President for Community Relations (1995), B.A. (San Jose State University)

DRAKE, JAMES A., Associate Vice President and Director of Southern Region Area Campuses (1994), A.B., Ph.D. (Ohio State University)

DRESSLER, SHERI, Director, Center for Cooperative Education and Applied Learning (1982), B.A., M.S.W., Ph.D. (University of Florida)


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FAUST, ROBERT, Director for Student Health Services (1985), B.A. (University of South Florida)

FORD, INEZ, Associate Director for Multicultural Academic & Support Services (1981), B.A. (University of Central Florida)

FORTIER, VANESSA, Director, University Budget Office (1998), B.S.B.A., M.B.A. (University of Central Florida)

GUASE, J. RICHARD, JR., Associate University Librarian (1998), B.S., M.B.A., M.L.S. (Florida State University)

GONZALEZ, LYNN, Director, Academic Affairs Administration (1991), B.A., M.B.A. (University of Central Florida)

GRAY, BETSY L., Associate Director, Office of Research (1972), B.S.B.A. (University of Central Florida)

GRAY, LINDA S., Assistant Vice President for University Relations and Director of News and Information, University Relations (2000), B.S., M.A. (University of Florida)

HALL, RHONDA C, Interim Director of Student Outreach Programs (1993), B.A., M.A. (University of Central Florida)

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HAPLIN, SUZANNE M., Director for Student Union (1999), B.S. (Bentley College)

HARRISON, DAVID, Vice Provost, Regional Campuses (2004), B.E., M.B.A., Ph.D. (Ohio State University)

HARTMAN, JOEL L., Vice Provost, Information Technologies and Resources (1995), B.S., M.S., Ed.D. (University of Central Florida)

HARTZELL, CHRISTI A., Director of Housing and Residence Life (1982), B.A., M.Ed. (University of Miami)

HELMS, TERRENCE K., Assistant Vice President, University Marketing (2005), B.S., M.B.A. (Rollins College)

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HITT, JOHN C., President of the University and Professor of Psychology (1992), B.A., M.S., Ph.D. (Tulane University)

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VALDES, EDUARDO V., Associate Research Professor of Biology (2002), M.S., Ph.D. (University of Guelph)

VAN STRYLAND, ERIC W., Professor of Optics (1987), B.S., Ph.D. (University of Arizona)

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JUNTUREN, DANA, Coordinator for Office of Student Conduct (2003), B.A., M. Ed (James Madison University)

JUNTUREN, SHANE A., Assistant Director for Office of Student Involvement/Advisor for Student Government (2003), B.S., M. Ed. (James Madison University)


KATZ, SUSAN RACHEL, Director, Southeast Region, National Consortium for Academics and Sports, Academic Retention and Development (1997), B.S. M.S. (Northeastern University)

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MONROE, JUDITH E., Assistant Vice President (1978), B.S., M.A. (University of Central Florida)

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MORGAN, BEN B., JR, Associate Dean, Graduate Studies, and Professor of Psychology (1988), B.A., M.A., Ph.D. (University of Louisville)

MORRISON-SHETLAR, ALISON, Director, Karen L. Smith Faculty Center for Teaching and Learning, and Professor of Biology (2002), B.S., Ph.D. (Dundee College of Technology)


MURATORI, JOANNE, Associate Director, Academic Program Completion (1991), B.A., M.A. (Columbia University)

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NEWMAN, PETER, Director, Facilities Planning (1977), B.S. (Drexel University)

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PARADISE, RICHARD D., Director, Physical Plant (1986), B.S., M.A. (University of Central Florida)

PARKER, MELANIE, Director for Career Resource Center (2000), B.S., M.Ed. (Mississippi State University)

PAVLONNIS, DAVID L., Director for Activity and Service Fee Business Office (1998), B.S., M.S. (University of Tennessee)

PAYNE, RICHARD S., Assistant Director for Administrative Support Services (2001), B.S., M.B.A. (University of Central Florida)

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ROBERTS, MARK A., Director, Human Resources (1996), B.A., M.A. (Central Michigan University)

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SCHONS, EDWARD L. Director of University Economic Development, University Relations (2000), B.S. (Florida Southern College)

SCHUCKMAN, GREGORY A., Director of Federal Relations, University Relations (2000), B.S., M.G.A. (University of Pennsylvania)

SHAH, MUBARAK A., Assistant Vice President for Research and Professor of Computer Science (1986), B.E., M.S., Ph.D. (Wayne State University)

SHIVER, LAUREN A., Assistant Vice President for Advancement Services (2002), A.A., B.B.A., M.B.A (Valdosta State University)

SHRROD, SCOTT, Assistant Director, Office for Veterans’ Affairs (1996), B.S. (University of Central Florida)

SMITH, JAMES C., Interim Director of Southern Region Campus Life (1997), B.S., M.A., Ph.D. (University of Central Florida)

SNOW, ROBERT, Program Director, Transition Advising (1967), B.S., M.S. (Shippensburg University Pennsylvania)

SOILEAU, MARION J., Vice President for Research and Professor of Optics, ECE, and Physics (1967), B.S., M.S., Ph.D. (University of Southern California)

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STALLWORTH, N. RICHARD, Director, Business Services (1999), B.S., M.P.A. (University of Florida)

STINARD, CHARLENE, Director for Transfer and Transition Services (1999), B.A., M.A. (Columbia University)

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TRESP, DIANE, Director, Community Relations (1994), B.S., B.S.N., M.S. (University of Central Florida)
TRUMAN, BARBARA, Director, Course Development and Web Services (1996), B.A., M.A. (University of Central Florida)

TURKEWICZ, RICHARD P., Director, Police and Public Safety (1988), B.A., M.A. (State University of New York at Buffalo)

UHLIR JR., JAMES E., Director, Environmental Health and Safety (1988), B.S., M.P.A. (University of Central Florida)

ULLOM, CRAIG E., Associate Vice President for Campus Life (1998), B.A., M.S., Ed.D. (University of Georgia)

VAIDYANATHAN, PALLAVOOR N., Assistant Vice President for Research (1999), B.S., B.E., M.Sc., M.B.A., Degree of ENGINEER (Materials Science & Engineering) (University of Florida)

WAGNER, PATRICK, Assistant Vice President and Director, Continuing Education (1997), B.S., M.S., Ph.D. (University of Wisconsin-Madison)

WANG, ALVIN Y., Interim Dean, Burnett Honors College and Professor of Psychology (1987), B.A., Ph.D. (State University of New York at Stony Brook)

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<table>
<thead>
<tr>
<th>Date</th>
<th>Name and Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>December, 1969</td>
<td>Kurt H. Debus, Doctor of Engineering Science</td>
</tr>
<tr>
<td></td>
<td>William H. Dial, Doctor of Commercial Science</td>
</tr>
<tr>
<td>June, 1970</td>
<td>John W. Young, Doctor of Applied Sciences</td>
</tr>
<tr>
<td>March, 1973</td>
<td>Louis C. Murray, Doctor of Public Service</td>
</tr>
<tr>
<td>August, 1974</td>
<td>Fred C. Clayton, Doctor of Professional Engineering</td>
</tr>
<tr>
<td>August, 1978</td>
<td>Richard F. Livingston, Doctor of Business Administration</td>
</tr>
<tr>
<td>June, 1979</td>
<td>Albert F. Hegenberger, Doctor of Engineering Science</td>
</tr>
<tr>
<td>December, 1979</td>
<td>Lee R. Scherer, Doctor of Engineering Science</td>
</tr>
<tr>
<td>June, 1980</td>
<td>Joseph Daniel Duffy, Doctor of Humane Letters</td>
</tr>
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<td>December, 1980</td>
<td>Thelma Vivian Jackson Dudley, Doctor of Humanities</td>
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<tr>
<td>April, 1982</td>
<td>Gene Burns, Master of Letters</td>
</tr>
<tr>
<td>July, 1982</td>
<td>Robert J. Whalen, Doctor of Engineering Science</td>
</tr>
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<td>Ferdinand Duda, Doctor of Agricultural Service</td>
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<td>John Duda, Doctor of Agricultural Service</td>
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<td>July, 1982</td>
<td>William E. Davis, Doctor of Public Service</td>
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<tr>
<td>December, 1982</td>
<td>Joseph A. Boyd, Doctor of Engineering Science</td>
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<td>July, 1983</td>
<td>Charles Wadsworth, Doctor of Public Service</td>
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<td>December, 1984</td>
<td>Allen E. Gotlieb, Doctor of Laws</td>
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<td>May, 1985</td>
<td>George J. Becker, Jr., Doctor of Public Service</td>
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<td>Jerry Collins, Doctor of Public Service</td>
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<tr>
<td>March, 1986</td>
<td>Isaac Bashevis Singer, Doctor of Letters</td>
</tr>
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<td>October, 1988</td>
<td>Elie Wiesel, Doctor of Letters</td>
</tr>
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<td>December, 1988</td>
<td>Sven Caspersen, Doctor of Engineering Science</td>
</tr>
<tr>
<td>December, 1988</td>
<td>John D. Holloway, Doctor of Public Service</td>
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<td>May, 1989</td>
<td>Frank M. Hubbard, Doctor of Public Service</td>
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<td>David Albertson, Doctor of Humane Letters</td>
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<td>William S. Jenkins, Doctor of Humane Letters</td>
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<td>James C. Robinson, Doctor of Public Service</td>
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<tr>
<td>March, 1973</td>
<td>Charles N. Millican, Doctor of Laws</td>
</tr>
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<td>August, 1978</td>
<td>Thaddeus Seymour, Doctor of Letters</td>
</tr>
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<td>June, 1979</td>
<td>Robert Bryan, Doctor of Humane Letters</td>
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<td>December, 1979</td>
<td>Buell G. Duncan, Jr., Doctor of Commercial Science</td>
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<tr>
<td>June, 1980</td>
<td>Norman R. Augustine, Doctor of Engineering Science</td>
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<td>December, 1980</td>
<td>Jesse Stone, Doctor of Humane Letters</td>
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<td>April, 1982</td>
<td>Nicolaas Bloembergen, Doctor of Science</td>
</tr>
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<td>December, 1981</td>
<td>Richard A. Nunis, Doctor of Public Service</td>
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<td>April, 1982</td>
<td>Maxwell C. King, Doctor of Public Service</td>
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<td>July, 1982</td>
<td>Joe R. Lee, Doctor of Commercial Science</td>
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<td>July, 1982</td>
<td>Trevor Colbourn, Doctor of Humane Letters</td>
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<td>July, 1982</td>
<td>Linda W. Chapin, Doctor of Public Service</td>
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<td>July, 1982</td>
<td>Desmond Tutu, Doctor of Humane Letters</td>
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<td>December, 1982</td>
<td>Oscar Arias, Doctor of Humane Letters</td>
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<td>July, 1983</td>
<td>Reuben O'D Askew, Doctor of Public Service</td>
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<td>December, 1984</td>
<td>Lotfi Zadeh, Doctor of Science</td>
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<td>May, 1985</td>
<td>Richard M. Karp, Doctor of Science</td>
</tr>
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<td>December, 1984</td>
<td>Joseph T. Traub, Doctor of Science</td>
</tr>
<tr>
<td>March, 1986</td>
<td>LeRoy T. Walker, Sr., Doctor of Public Service</td>
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<tr>
<td>October, 1988</td>
<td>James Bachus, Doctor of Public Service</td>
</tr>
<tr>
<td>December, 1988</td>
<td>Nancy Burnett, Doctor of Commercial Science</td>
</tr>
<tr>
<td>March, 1986</td>
<td>Albert Burnett, Doctor of Commercial Science</td>
</tr>
<tr>
<td>March, 1986</td>
<td>Robert E. Kahn, Doctor of Science</td>
</tr>
<tr>
<td>October, 1988</td>
<td>Dr. G. Vince Amico, Doctor of Science</td>
</tr>
<tr>
<td>December, 1988</td>
<td>Dr. Lester Mandell, Doctor of Commercial Science</td>
</tr>
<tr>
<td>March, 1986</td>
<td>Anibal Acevedo Vila, Doctor of Public Service</td>
</tr>
</tbody>
</table>
A.A.: associate in arts degree. A degree designed for transfer to an upper division college or university. A Florida A.A. degree satisfies General Education (GEP) at all Florida SUS Schools.

Accreditation: certification that the college/school or program has met established standards and is nationally recognized by appropriate accrediting agencies.

ACT: American College Testing program is used for undergraduate admission purposes.

Add/Drop: online procedure used to alter class schedules after registration. During this time, students can adjust their schedules through MyUCF (https://my.ucf.edu) without penalty by adding or dropping courses. Students should check the appropriate term's Schedule Web Guide for details.

AEP: Academic Exploration Program to assist undecided students.

A.S.: associate in science degree. A broad-based degree designed to prepare students to enter a wide variety of careers.

ASSA: Academic Services for Student Athletes.

Audit (course): to attend classes without receiving academic credit.

Audit (Degree): Computerized summary of progress toward completion of degree requirements to be used with academic advising and registration. Available from MyUCF at https://my.ucf.edu. (See also “SASS Degree Audit”)

BA: Business Administration. This abbreviation appears in the listing of courses and refers to the College of Business Administration (CBA). Also see Bachelors Degree.

Baccalaureate or Bachelors Degree: completion of all University and major graduation requirements as certified by the University (B.A. is the Bachelor of Arts degree and B.S. is the Bachelor of Science degree).

BCBS: Burnett College of Biomedical Sciences.

Breaking Catalog: loss of eligibility to follow graduation requirements in a specific catalog.

CAH: College of Arts and Humanities.

Catalog: resource for UCF academic policies and procedures, college/school and degree requirements, course descriptions and faculty listings. It is published annually and its contents are subject to change. Available online at http://www.catalog.sdes.ucf.edu

Catalog Year: the edition of the University catalog that governs course prerequisites, co-requisites and graduation requirements for a particular academic year.

CBA: College of Business Administration

CECS: College of Engineering and Computer Science

Certificate: special program of study supplemental to a major.

Ct: consent of instructor.

Class Schedule Search: a component of the online MyUCF system (https://my.ucf.edu) that lists courses and class sections offered each academic term.

CLAST: College Level Academic Skills Test: the CLAST is a required statewide test which measures selected communication and mathematics skills.

CLAST Alternative: refers to another way of satisfying one or more subtests of the CLAST requirement other than taking the exam - through combination test scores (SAT or ACT) and specific course grades.

COE: College of Education.

COHPA: College of Health and Public Affairs.

College: collection of related academic departments. There are nine colleges at UCF: Arts and Humanities (CAH), Business Administration (CBA), Burnett College of Biomedical Sciences (BCBS), Education (COE), Engineering and Computer Science (CECS), Health and Public Affairs (COHPA), Optics and Photonics (COP), The Burnett Honors College (BHC), Rosen College of Hospitality Management (RHM), and Sciences (COS).

Common Course Numbering: the statewide course numbering system (SCNS) uses a course designation that consists of a 3-letter prefix and a 4-digit number and when necessary a one-letter laboratory (L) or lecture/laboratory (C) suffix.

Common Program Prerequisite: the State of Florida has identified Common Program Prerequisites for all University programs. These prerequisites must be completed by all students entering that field of study, must be accepted by all state universities and must be applied towards the degree.

Contact hours: number of hours students meet in class.

Continuous Enrollment: enrollment not interrupted by non-attendance for either consecutive Fall and Spring terms, or consecutive Spring, Summer term, and Fall.

COS: College of Sciences.

CR: co-requisite is an additional course in which you must enroll during the same term as the primary course you desire to take.

Credit Hour or Semester Hour: every course taught is designated a total number of credit hours. The number of credit hours for a class reflects approximately the total hours a student spends per week in class. Most lecture courses are three credit hours and meet three hours each week. Students should expect to spend at least two hours of study time outside of class for every hour spent in class. One semester hour equals 1.5 quarter hour.

Diploma: official certificate displaying earned degree, major and baccalaureate honors.

Directory Information: information items that the Family Educational Rights and Privacy Act of 1974, as Amended (FERPA) authorizes the University to release without the student's prior consent, unless the student has filed a "Directory Disclosure/Release Authorization Form" with the Registrar's Office. Directory information at UCF includes the student's name, current mailing address, telephone number, date of birth, e-mail address, enrollment status, dates of attendance, major field of study, degree and awards received, participation in officially recognized activities and sports, and athletes' height and weight.

Disqualified: a student on academic probation is disqualified upon failure to achieve a minimum 2.0 UCF GPA during the subsequent term. A student who is disqualified may not enroll at the University for two terms following disqualification. Reenrollment after two terms is not automatic.

Distance and Distributed Learning: learning online through the UCF Virtual Campus, which provides opportunities for students to enroll in credit courses and select degree programs through a variety of interactive distributed technologies.

Double Major: awarded when the student concurrently satisfies requirements for two majors.

Drop: a student may drop a course during the official Add/Drop period and a dropped course will not appear on the student's permanent record. Students are not fee liable for dropped courses.

Elective: any course not required as part of the General Education Program or as part of your major/minor.

Email: primary official means of communication with students regarding University business and information.

Enrollment Certification: an official University document that provides a student's enrollment history including status, dates enrolled, and degrees awarded, available online at my.ucf.edu in Student Self Service.

Equipment Fee: A charge associated with some majors to cover the use and replacement of equipment.

Excluded: a student readmitted following disqualification who fails to achieve a minimum 2.0 GPA is excluded from the University. Students are not eligible for readmission after exclusion. See “Readmission” for details.

Fee Invoice: a printout of courses for which the student has registered that lists each specific course, its meeting time(s) and day(s). The amount of tuition and fees due for all courses registered and the payment deadline date also is indicated. Available online at https://my.ucf.edu in Student Self Service.

Freshman and Sophomore Courses: lower level courses with common course numbers ranging from 1000-2999 (e.g., ENC 1101, English Composition I). Generally, freshmen should enroll in 1000 and 2000 level courses.

FYAE: First Year Advising and Exploration.

GEP: General Education Program: Specific courses required for all UCF degree programs providing skills and knowledge in general subject areas essential to continued learning and success, not only in college but throughout the student's life.

Gordon Rule: requires students to complete four composition courses (12 semester hours) and two courses (six semester hours) of mathematics at the level of college algebra or higher. Each course must be completed with a grade of "C" (1.75) or better.

GPA: “Grade Point Average”: the average number of grade points per semester hour attempted. GPA is computed by dividing the total number of grade points assigned by the total number of semester hours attempted, less hours resulting from NC, W, WP, and I grades.

Grade Forgiveness: refers to when a course taken at UCF is repeated, and for grade point average purposes, the grade earned in the first attempt is replaced by the grade earned in the second attempt at UCF (may be used only twice in the student's academic career).
Grade Point Deficiency: for readmission purposes only, this term is defined as the number of UCF credit hours earned with a "B" (3.0 GPA) grade that a student requires to raise his or her UCF cumulative grade point average to 2.0. A student’s grade point deficiency is calculated when the student applies for readmission.

Health Form: documentation of immunity for measles and rubella, as well as consent for treatment at the University Health Center (must be completed and returned to Student Health Services prior to the first registration).

Hold: also called a “negative service indicator,” this is a block on activity for transcripts, grades, diploma, or registration because of financial or other obligations to UCF.

Incomplete: grade assigned by the instructor when a student is unable to complete a course due to extenuating circumstances. Must be completed in 12 months or by graduation, whichever comes first.

Junior and Senior Courses: upper level courses with common course numbers ranging from 3000-4999 (e.g., ENG 3311, Advanced Expository Writing).

Kiosk: stand-alone PCs located in UCF public areas providing access to student records and general information.

Limited Access: certain academic programs designated as “limited access” only guarantee admission to a limited number of applicants.

Lower Level Courses: courses with a number of 1000-2999 (not less than 1000).

Major: group of related courses that constitute a focused program of study in a specific area of knowledge.

Material and Supply Fee: A charge associated with some courses to cover items consumed within the class.

Minor: a complement to a bachelor’s degree program/major requiring at least 18 credit hours in a field.

NID: Network Identification Number that students use to log in to WebCT, Pegasus e-mail and the UCF computer labs.

OASIS: Office of Academic Support and Information Services is the primary office for undergraduate academic assistance in the College of Arts and Humanities and the College of Sciences.

Overall GPA: cumulative GPA of UCF and transfer course work.

Password: a series of four to eight characters and numbers chosen by the student that is associated with the PID (Personal Identification Number). Each time you use the PID to enter MyUCF, you also will enter your Password.

Pending Status: category assigned to students who desire to enter limited or restricted access programs. Typically, students are required to complete the GEP and all major pre-requisites prior to admission into the desired limited access program. (Department will change student’s status upon acceptance into the program.)

PID: (Personal Identification Number); personal eight-digit code required when entering MyUCF, or the UCF Information Kiosks.

UCF at Cocoa, UCF at Ocala, UCF at Osceola, UCF at Palm Bay, UCF at Sanford/Lake Mary, UCF at South Lake, UCF at South Orlando.

UCF GPA: grade point average (GPA) on work attempted while in attendance at UCF.

Upper Level Courses: courses with a number of 3000-4999.

Withdrawal, Withdraw from a Course: to formally request an official withdrawal from one or more courses during the first half of the term or session through MyUCF (https://my.ucf.edu) or at the Registrar’s Office.
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