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The UCF Creed

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

**Integrity**
I will practice and defend academic and personal honesty.

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

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

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

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

University of Central Florida

PEGASUS was the winged horse of the muses in Greek Mythology. It carried their hopes, their aspirations, and their poetry into the skies. PEGASUS is as futuristic as tomorrow’s space exploration in our solar system and into the universe beyond. The seal also bridges the gap between the humanities and space technology.
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 129,500 alumni.

Cordially yours,

John C. Hitt
President
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**Accelerated Undergraduate–Graduate Programs**

- Economics (B.A./M.A.A.E. and B.S.B.A./M.A.A.E.)
- History
- Liberal Studies
- Nursing Second Degree B.S.N. Option

**Articulated A.S. to B.S. Degree Programs**

- Criminal Justice
- Electrical Engineering Technology
- General Business
- Hospitality Management
- Information Systems Technology
- Liberal Studies
- Nursing
- Radiologic Sciences

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State of Florida Board of Education
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Director, Greek Affairs .................................................. Gregory Mason
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Director, Rosen College of Hospitality Management ........................... TBA

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Director, Orientation Services .................................................. Joe Ritchie
Director, Recreation and Wellness Center ........................................ William Ehling
Director, Rosen College of Hospitality Management ........................... TBA

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University Administration

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Director, Southern Regional Office of the National
Consortium for Academics and Sports ........................ Suzi Katz
Director, StudentDisability Services .......................... Philip N. Kaffin
Director, Student Health Services ............................. Robert Faust
Director, Student Leadership Programs ......................... TBA
Director, Student Records Office ............................... TBA
Director, Student Union .......................................... TBA
Director, Student Transition Services ......................... Robert Snow
Director, Transition and Transfer Services ..................... TBA
Director, Alcohol and Other Drug Programming ............ Tom Hall
Interim Director, Southern Region Campus Life ............. Jim Smith
Associate Director, Student Wellness Center .......... Jiri Wianingen
Assistant Director, Housing and Residence Life ............ Jeff Novak
Director, Student Involvement, TBA
Advisor, Student Government ................................. Shane Juntunen
Assistant Director, Student Conduct ...................... Dana Juntunen
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Coordinator, REACH Peer Education ......................... Keri Nola
Coordinator, REACH Peer Education ......................... TBA

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Assistant Vice President for Research ....................... Pallavoo N. Vaidyanathan
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Associate Director, Research Information Systems ........ Beverly Laakso
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Technology Transfer ........................................... Herb Winfield

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Director, Facilities Planning .................................... TBA
Director, Human Resources ..................................... TBA
Director, Physical Plant ........................................... TBA
Director, Purchasing ............................................ TBA
Director, University Police ..................................... TBA
University Controller ........................................ Linda B. Bonta

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Director, Federal Relations ................................. Gregory Schuckman

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Dean ................................................................. P.E. Kolattukudy
Associate Dean ............................................... London Payne
Assistant Chair ................................................. Roseann White

College of Arts and Sciences
Dean ................................................................. Kathryn L. Seidel
Associate Dean, students ...................................... Lyman Brodie
Associate Dean, faculty ....................................... Jose Fernandez
Associate Dean, budget ....................................... Jack McGuire
Assistant Dean, research ....................................... Clint Bowers
Assistant Dean, graduate programs ......................... Michael Johnson
Assistant Dean, undergraduate programs .......... Consuelo Stebins
Director, Liberal Studies Program ......................... Elliot Vites
Director, OASIS ....................................................... TBA
Director, School of Communication ............... Mary Alice Shaver
Interim Dir, Center for Digital Media ................... TBA
Chair, Art ............................................................... TBA
Chair, Biology ......................................................... TBA
Chair, Chemistry ................................................... TBA
Interim Chair, English ......................................... Jose Fernandez
Chair, Foreign Languages and Literatures .......... Paolo Giordano
Chair, History ......................................................... TBA
Chair, Mathematics .............................................. TBA
Chair, Music ........................................................ TBA
Chair, Philosophy ................................................ TBA
Interim Chair, Physics .......................................... Ralph Llewellyn
Chair, Political Science ......................................... Roger Handberg
Chair, Psychology ................................................ TBA
Chair, Sociology and Anthropology ............... Harald J. Corzine
Chair, Statistics and Actuarial Science ............. Ibrahim A. Ahmad
Chair, Theatre ......................................................... TBA

The Burnett Honors College
Interim Dean ...................................................... Alvin Wang
Associate Dean .................................................. TBD
Director, Academic Programs ......................... Kelly Astro
Director of Undergraduate Affairs .......... Madu Dogariu
Director of Undergraduate Studies .... Andrew Holloway
Director of Student Affairs .................................. Jill Norburn
Director of Student Development ..................... Donna Piastre
Director of Advising ............................................. Peter Wallace

College of Business Administration
Dean ................................................................. Thomas L. Keon
Associate Dean .................................................. TBD
Associate Senior Director, Graduate Programs ......... Robin Roberts
Director of Undergraduate Programs .......... Taylor Ellis
Center for Executive Development .......... Kay Mitnick
Director, School of Accounting ......................... Andrew J. Judd
Chair, Economics ............................................... Dehane Hosni
Chair, Management ............................................ TBA
Chair, Management Information Systems .......... Paul Cheney
Director, Major Gifts ............................................. TBA
Director, Student Support .................................... Helen Y. Hill

College of Education
Dean ................................................................. TBA
Associate Dean for Academic Affairs ........ Jennifer C. Platt
Associate Dean for Research and
Graduate Studies ........................................ TBA
Assistant Director, School of Computer Science .... Ronald D. Dutton
Director, School of Communication ........ Mary Alice Shaver
Director, OASIS ....................................................... TBA
Director, Liberal Studies Program ......................... Elliot Vites
Assistant Dean, Research and
Graduate Studies ........................................ TBA
Director, School of Modern Languages .......... TBA
Director, School of Communication ........ Mary Alice Shaver
Assistant Director, School of Modern Languages .... TBA
Assistant Director, School of Modern Languages .... TBA
Director, School of Communication ........ Mary Alice Shaver
Assistant Director, School of Modern Languages .... TBA

College of Engineering and Computer Science
Dean ................................................................. Neel Gallagher
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Assistant Dean for Distributed Learning .......... Sam Ritchie
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Director, Academic Support Services .......... Melissa Falls
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Chair, Industrial Engineering and
Management Systems .................................. Lesia Cruempf-Young
Chair, Mechanical, Materials and
Aerospace Engineering ............................... Ranganathan Kumar
Chair, Naval Architecture and
Marine Engineering .................. TBA
Chair, Health Professions ..................................... TBA
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Director, School of Social Work ...................... TBA
Director, Student Support ................................. TBA

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Dean ................................................................. Belinda R. McCarthy
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Interim Associate Dean, Resource Planning .......... Stephen Holmes
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Chair, Health Professions ..................................... TBA
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Chair, Public Administration ......................... Montgomery Van Wart
Director, School of Social Work ...................... Mary Van Hook
Director, Student Support ................................. TBA

College of Optics and Photonics
Dean and Director ............................................... TBA

Rosen College of Hospitality Management
Dean ................................................................. TBA
Associate Dean .................................................. TBD

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### Application Deadlines

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<td>Aug. 17 (11:00 a.m.)</td>
<td>Jan. 6 (1:00 p.m.)</td>
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### Registration Time for State Employees, Non-degree, Transients and Audits

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<td>Jan. 6</td>
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### Registration for UCF Employees, Senior Citizen Audits, and STEP

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<td>Aug. 19</td>
<td>Jan. 6</td>
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<td>Aug. 22</td>
<td>Jan. 9</td>
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### Late Registration and Add/Drop

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<td>Aug. 22-26</td>
<td>Jan. 9-13</td>
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### Last Day for Full Refund

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<td>Aug. 26</td>
<td>Jan. 13</td>
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### Grade Forgiveness Deadline

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<td>Aug. 26</td>
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### Last Day to Mail Payment (postmarked)

<table>
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<th>Fall 2005</th>
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<tr>
<td>Sep. 1</td>
<td>Jan. 19</td>
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### Payment Deadline

<table>
<thead>
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<th>Fall 2005</th>
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<tbody>
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<td>Sep. 1</td>
<td>Jan. 19</td>
</tr>
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### CLAST Test

<table>
<thead>
<tr>
<th>Fall 2005</th>
<th>Spring 2006</th>
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<tr>
<td>Oct. 1</td>
<td>Feb. 18</td>
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### Withdrawal Deadline

<table>
<thead>
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<th>Spring 2006</th>
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<tbody>
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<td>Oct. 14</td>
<td>Mar. 3</td>
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### VA Deferral Payment Deadline

<table>
<thead>
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<th>Fall 2005</th>
<th>Spring 2006</th>
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<tbody>
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<td>Nov. 18</td>
<td>Apr. 7</td>
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### Classes End; Last Day to Remove Incomplete

<table>
<thead>
<tr>
<th>Fall 2005</th>
<th>Spring 2006</th>
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<tbody>
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<td>Dec. 3</td>
<td>Apr. 24</td>
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### Final Examination Period

<table>
<thead>
<tr>
<th>Fall 2005</th>
<th>Spring 2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec. 5-10</td>
<td>Apr. 25 - May 1</td>
</tr>
</tbody>
</table>

### Residence Halls Close (noon)

<table>
<thead>
<tr>
<th>Fall 2005</th>
<th>Spring 2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec. 11</td>
<td>May 2</td>
</tr>
</tbody>
</table>

### Commencement

<table>
<thead>
<tr>
<th>Fall 2005</th>
<th>Spring 2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec. 12-13</td>
<td>May 4-6</td>
</tr>
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</table>

### Grades Due in Registrar's Office

<table>
<thead>
<tr>
<th>Fall 2005</th>
<th>Spring 2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec. 14</td>
<td>May 4</td>
</tr>
</tbody>
</table>

### Grades Available on MyUCF (begins 9:00 a.m.)

<table>
<thead>
<tr>
<th>Fall 2005</th>
<th>Spring 2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec. 16</td>
<td>May 6</td>
</tr>
</tbody>
</table>

### University Holidays and Special Events

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor Day Holiday</td>
<td>Sep. 5, 2005</td>
</tr>
<tr>
<td>Homecoming Week (classes still held)</td>
<td>Oct. 31 - Nov. 5, 2005</td>
</tr>
<tr>
<td>Veteran's Day Holiday</td>
<td>Nov. 11, 2005</td>
</tr>
<tr>
<td>Thanksgiving Holiday</td>
<td>Nov. 24-26, 2005</td>
</tr>
<tr>
<td>Martin Luther King Jr. Holiday</td>
<td>January 16, 2006</td>
</tr>
<tr>
<td>Spring Break - Holiday</td>
<td>March 13-18, 2006</td>
</tr>
<tr>
<td>Founders Day Honors Convocation (classes still held)</td>
<td>April 5, 2006</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 Ends at 5:00 p.m. on last day.
2 $100 Late Registration Fee applies to students who enroll following the close of Add/Drop or who enroll for the first time that term during Late Registration and Add/Drop.
3 $100 Late Payment Fee applies to students who do not pay their fees or do not pay their fees by the due date.
4 Incomplete grades must be removed within one year of the award date prior to graduation from the University, whichever comes first, else they will change to "F."
### Summer 2006 Academic Calendar

<table>
<thead>
<tr>
<th>Summer 2006</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 15</td>
<td>April 15</td>
<td>April 15</td>
<td>April 15</td>
</tr>
<tr>
<td>Graduation Application (Intent to Graduate form) due in college advising office</td>
<td>Mar. 6 - April 24</td>
<td>Mar. 6 - April 24</td>
<td>Mar. 6 - April 24</td>
<td>Mar. 6 - April 24</td>
</tr>
<tr>
<td>Registration for State Employees, Non-degree, Transients and Audits (begins 3:00 p.m.)</td>
<td>May 12</td>
<td>June 23</td>
<td>May 12</td>
<td>May 12</td>
</tr>
<tr>
<td>Registration for UCF Employees, Senior Citizen Audits, and STEP (begins 3:30 p.m.)</td>
<td>May 12</td>
<td>June 23</td>
<td>May 12</td>
<td>May 12</td>
</tr>
<tr>
<td>Residence halls open (11:00 a.m.)</td>
<td>May 14</td>
<td>June 25</td>
<td>May 14</td>
<td>May 14</td>
</tr>
<tr>
<td>Classes begin</td>
<td>May 15</td>
<td>June 26</td>
<td>May 15</td>
<td>May 15</td>
</tr>
<tr>
<td>Late Registration and Add/Drop</td>
<td>May 15-19</td>
<td>June 26-30</td>
<td>May 15-19</td>
<td>May 15-19</td>
</tr>
<tr>
<td>Fees due: Last day for full refund</td>
<td>May 26, 2006 - Students registering from 3/27/06 through 5/19/06</td>
<td>July 7 - Students registering for B only 5/20 through 6/30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grade Forgiveness deadline</td>
<td>May 19</td>
<td>June 30</td>
<td>May 19</td>
<td>May 19</td>
</tr>
<tr>
<td>Withdrawal deadline</td>
<td>June 2</td>
<td>July 14</td>
<td>June 23</td>
<td>June 16</td>
</tr>
<tr>
<td>VA deferral payment deadline</td>
<td>July 28</td>
<td>July 28</td>
<td>July 28</td>
<td>July 28</td>
</tr>
<tr>
<td>Classes end; last day to remove incomplete grades</td>
<td>June 23</td>
<td>August 4</td>
<td>August 4</td>
<td>July 14</td>
</tr>
<tr>
<td>Final Examination Period</td>
<td>June 23</td>
<td>August 4</td>
<td>August 4</td>
<td>July 14</td>
</tr>
<tr>
<td>Residence halls close (noon)</td>
<td>June 24</td>
<td>August 5</td>
<td>August 5</td>
<td>July 15</td>
</tr>
<tr>
<td>Grades due in Registrar’s Office</td>
<td>June 28</td>
<td>August 9</td>
<td>August 9</td>
<td>July 19</td>
</tr>
<tr>
<td>Grades Available on My UCF (begins 9:00 a.m.)</td>
<td>June 29</td>
<td>August 11</td>
<td>August 11</td>
<td>July 20</td>
</tr>
<tr>
<td>Commencement</td>
<td>August 5</td>
<td>August 5</td>
<td>August 5</td>
<td>August 5</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) 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. Ends at 5:00 p.m. on last day
2. Summer B payment deadline for all students who register 3/27 - 5/19; Summer B payment deadline for all students who register May 20 - June 30.
3. $100 Late Registration Fee applies to students who enroll following the close of Add/Drop or who enroll for the first time that term during Late Registration and Add/Drop. $100 Late Payment Fee applies to students who do not pay their fees or do not pay their fees by the due date.
4. Incomplete grades must be removed within one year of the last day of the term or prior to graduation from the University, whichever comes first, else they will change to “F.”
5. Summer Final Exams are given during the last class meeting.

### University Holidays and Special Events

- Memorial Day Holiday: May 29, 2006
- Independence Day Holiday: July 4, 2006
Administrative Procedures Act Policy Statement
The University of Central Florida, under applicable rules of the Administrative Procedures Act, may change any of the announcements, information, policies, rules, regulations, or procedures set forth in this Undergraduate Catalog. The Undergraduate Catalog is published once a year and cannot always reflect new and modified regulations. Statements in this Undergraduate Catalog may not be regarded in the nature of binding obligations on the institution or the State of Florida. While every effort will be made to accommodate the curricular needs of students, limited resources may prevent the University from offering all required courses in each semester or in day and evening sections.

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

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

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

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

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

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

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

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

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

Student organizations may develop more stringent regulations regarding alcohol use.

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

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

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

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

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

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


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

- Cheating, whereby non-permissible written, visual, or oral assistance including that obtained from another student is utilized on examinations, course assignments, or projects. The unauthorized possession or use of examination or course related material may also constitute cheating.
- Plagiarism, whereby another's work is deliberately used or appropriated without any indication of the source, thereby attempting to convey the impression that such work is the student's own. Any student failing to properly credit ideas or materials taken from another has plagiarized.
- Unauthorized assistance: communication to another through written, visual, or oral means. The presentation of material which has not been studied or learned, but rather was obtained solely through someone else's efforts and used as part of an examination, course assignment or project. The unauthorized possession or use of examination or course related material may also constitute cheating.
- Commercial Use of Academic Material: Selling notes, handouts, etc. without authorization or using them for any commercial purpose without the express written permission of the University and the Instructor is a violation of this rule.

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

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

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

The University of Central Florida has developed one of the nation’s most advanced campus technology environments, and all UCF students are provided free e-mail accounts and Internet access. Students wishing to acquire a personal computer are strongly advised to consider a laptop equipped with a wireless networking card. Recommended configurations can be found on the University’s Web site at http://www.cstore.ucf.edu/store/standards.html

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

To avoid missing important communications from the University, students must ensure that the University has an up-to-date “preferred” e-mail address, as well as both permanent and mailing (local) addresses. It is critical that students maintain and regularly check their preferred e-mail account for official announcements and notifications. Communications sent to an address on record will be deemed adequate notice. The University does not accept responsibility if official communication is rejected or fails to reach a student who has not notified the University of a change of preferred e-mail or postal mailing address.

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

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

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.

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.
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:

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

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

The University

The University of Central Florida is one of the 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 42,000, UCF is now one of the largest universities in the nation.

The UCF community includes an international student body, 129,500 alumni, and 8,400 faculty and staff. The University offers 74 bachelor’s degrees, 64 master’s degrees, three specialist degrees and 23 Ph.D. degrees as well as more than 65 graduate certificate programs. In addition to offering classes on the 1,415-acre main campus in Orlando, UCF’s regional campuses serve students throughout an 11-county area in Central Florida. More than 13,000 students are enrolled in online courses.

UCF is dynamically changing institution with growth and construction. Students and faculty enjoy state-of-the-art wireless classrooms and modern facilities, including a Barnes and Noble Bookstore with a cyber café, and a 185,000-square-foot Student Union with 11 restaurants and seven retail stores. Major construction projects recently completed include the Academic Village Residence Complex; the Progress Energy Student Support/Welcome Center; the four-story UCF Academy for Teaching, Learning and Leadership; the Wayne Densch Sports Center; and the 84,500-square-foot Recreation and Wellness Center. The College of Engineering and Computer Science is adding a third major building to complement its current 107,000-square-foot, high-tech wireless facility—and the new Rosen College of Hospitality Management is housed in a 159,000-square-foot campus on a 20-acre site in the heart of Central Florida’s tourist corridor.

UCF is quickly approaching the $100 million level in research funding from federal, state and private sources. By moving the university from promise to prominence in optics, lasers, photonics, nanoscience, engineering, education, simulation and biomolecular science, UCF researchers are demonstrating that imagination has no limits and anything is possible.

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

Online@UCF, The Virtual Campus

http://online.ucf.edu/

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

Online courses are identified in the online Schedule Search (https://My.ucf.edu) by the Instruction Mode found on the class detail panel for each class. Web-related instruction modes are MIXED-MODE/REDUCED SEAT TIME (M): These courses include electronic media-based instruction that substitutes for some classroom time (reduced seat time). WORLD WIDE WEB (W): These courses are delivered entirely over the Internet. They may require proctored examinations and may include opportunities for face-to-face orientations, but there will be no class attendance requirements.

These types of courses will require access to the Internet, web-
UCF Regional Campuses

The University of Central Florida also offers a number of programs through UCF Regional Campuses in your neighborhood. 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. and limited A.S. degrees to upper-level division work on a baccalaureate degree. Programs include 27 Bachelor’s programs, 23 minors and certificates, 15 master’s degrees, 9 Graduate Certificates, and 1 Doctoral program 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, and UCF at South Lake. In addition, advising is provided through UCF at Sanford/Lake Mary and UCF at Palm Bay. 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 selected courses (junior and senior level) contributing to undergraduate and graduate degrees in a variety of disciplines within the university. In response to community needs, the University of Central Florida also offers programs and courses in other locations. UCF Orlando 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.regionalcam-puses.ucf.edu

**Administration**

Regional Campuses Central Administration

UCF Regional Campuses

407-823-4547

Millican Hall, MH 331

Vice Provost, UCF Regional Campuses

David Harrison

Asst. Vice President, Central Region Director

David Meador

Asst. Vice President, Eastern Region Director

Bernard Jensen

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Asst. Vice President, Western Region Director

Cecilia Rivers

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Assistant to the Vice Provost

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**Technology Services**

Interim Director, Technology

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Orlando, Fl 32801-2612

For information: 407-317-7700

Assistant Vice President, Central Region Director

David Meador

UCF Downtown

Undergraduate Programs

College of Health and Public Affairs

Legal Studies (B.A., B.S.)*

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UCF at Daytona Beach

1200 W. International Speedway Blvd.

Daytona Beach, Fl 32114-0800

UCF at Deland

UCF at Sanford/Lake Mary

For information: 386-506-4021

Asst. Vice President, Eastern Region Director

Bernard Jensen

Eastern Region Associate Director

David Lane

Coordinator, Admissions, Registration, Records

Tena Harris

Program Officer, Admissions, Registration

Sheri Newby-Dunn

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LaShawn Glaspie

Coordinator, Financial Aid

Charlene Driver

Assistant Director, Academic Support Services

Keith Branhman

Coordinator, Academic Support Services

Leean Davis

Coordinator, Academic Support Services

Raphel Robinson

Coordinator, Academic Support Services

Diana Weidman

**UCF at Daytona Beach**

Undergraduate Degree Programs

**College of Arts and Sciences**

Liberal Studies (B.A., B.S.)

Photography (B.S.)

Political Science (B.A.)

Psychology (B.A., B.S.)

Social Sciences (B.S.)

Sociology (B.A.)

**College of Business Administration**

General Business Administration (B.S.B.A.)

Accounting (B.S.B.A.)*

Economics (B.S.B.A.)

Finance (B.S.B.A.)*

Management (B.S.B.A.)*

Management Information Systems (B.S.B.A.)*

Marketing (B.S.B.A.)*

**College of Education**

Elementary Education (B.S.)

Exceptional Education (B.S.)

Technical Education and Industry Training (B.S.) (Web-based)

**College of Health and Public Affairs**

Criminal Justice (B.A., B.S.)

Health Sciences (Generalist Track) (B.S.)

Health Services Administration (B.S.) (Web-based)

Legal Studies (B.A., B.S.)

Nursing (R.N. to B.S.N.)

**Undergraduate Minors and Certificates**

Anthropology in Multicultural Studies

Behavioral Forensics (Certificate)

Business (For Non-Business Majors Only)

Criminal Justice

English - Technical Writing

Environmental Studies

Exceptional Education

Health Sciences

Health Services Administration (Web-based)
University of Central Florida

RESOURCES & DEPARTMENTS

History
Legal Studies
Marketing
Philosophy
Political Science
Psychology
Religious Studies
Social Sciences - Interdisciplinary
Sociology
Women's Studies (Minor & Certificate)

Graduate Degree Programs
Business Administration (M.B.A.)*
Criminal Justice (M.S.)
Educational Leadership (M.Ed., M.A.)
Elementary Education (M.A.)
Exceptional Education (M.Ed., M.A.)
Health Sciences: Health Services Administration (M.S.)
Nursing (M.S.N.)
Psychology, Clinical (M.A.)
Public Administration (M.P.A.)
Social Work (M.S.W.)
Technical Education and Industry Training (Web-based) (M.Ed., M.A.)

Graduate Certificate Programs
Corrections Leadership
Domestic Violence
ESOL Endorsement K-12
Juvenile Justice Leadership
Professional Writing
Public Administration

Doctoral Degree Program
Educational Leadership (Ed.D.)

UCF at Sanford/Lake Mary

Undergraduate Degree Programs
College of Arts and Sciences
Liberal Studies (B.A., B.S.)
Psychology (B.A.)

College of Education
Elementary Education (B.S.)

College of Health and Public Affairs
Criminal Justice (B.A., B.S.)
Health Services Administration (B.S.)(Web-based)
Legal Studies (B.A., B.S.)
Nursing (B.S.N., R.N. to B.S.N.)

Undergraduate Minors and Certificates
Anthropology in Multicultural Studies
Business (For Non-Business Majors Only)
Communicative Disorders
Criminal Justice
Educational Leadership
Engineering FEEDS/ITV
Elementary Education
Exceptional Education
Industrial Engineering and Management Systems
Public Administration
Technical Education and Industry Training (Web-based) (M.Ed., M.A.)

Graduate Degree Programs
Applied Sociology
Business Administration (M.B.A.)*
Criminal Justice
Health Sciences: Health Services Administration
Educational Leadership
Engineering FEEDS/ITV
Elementary Education
Exceptional Education
Industrial Engineering and Management Systems
Public Administration
Technical Education and Industry Training (Web-based) (M.Ed., M.A.)

Graduate Certificates
Domestic Violence
ESOL Endorsement K-12
Initial Teacher Professional Preparation
Pre-K Handicapped Endorsement
Public Administration
Teaching English as a Foreign Language

UCF at Palm Bay

Undergraduate Degree Programs
College of Arts and Sciences
Psychology (B.A., B.S.)
Liberal Studies (B.A., B.S.)

College of Education
Early Childhood Education (B.S.)

College of Health and Public Affairs
Communicative Disorders (B.A., B.S.)
Health Services Administration (B.S.) (Web-based)
**Undergraduate Minors and Certificates**
- Criminal Justice
- Organizational Communication
- Sociology

**Graduate Degree Programs**
- Health Sciences: Health Services Administration

**Western Region:**
- **UCF at South Lake (Full-Service Campus)**
  1250 N. Hancock Rd.
  Clermont, FL 34711
- UCF at Leesburg
- UCF at MetroWest
- UCF at Ocala
- UCF at Osceola
- UCF at South Orlando

For information: 352-536-2113

Asst. Vice President, Western Region Director
Western Region Associate Director
Coordinator, Admissions and Registration
Coordinator, Academic Support Services
Coordinator, Academic Support Services
Coordinator, Ed Media/ITV (Telecomm/ns)

Cecelia Rivers
Edgar Martinez
Christie Strange
Tanya Armstrong
Selena Forrester
Jason Mayer

**UCF at South Lake**

**Undergraduate Degree Programs**
- College of Arts and Sciences
  - Liberal Studies (B.A., B.S.)
  - Psychology (B.A.)
- College of Business Administration
  - General Business Administration (B.S.B.A.)
- College of Education
  - Early Childhood Education (B.S.)
  - Elementary Education (B.S.)
  - Sports and Fitness (B.S.)
- College of Health and Public Affairs
  - Criminal Justice (B.A., B.S.)

**Undergraduate Minors and Certificates**
- Business (For Non-Business Majors)
- Psychology

**UCF at Leesburg**

**Undergraduate Degree Programs**
- College of Health and Public Affairs
  - Nursing (R.N. to B.S.N.) (Web-Based)
- Public Administration

**Graduate Degree Programs**

**UCF at Ocala**

**Undergraduate Degree Programs**
- College of Arts and Sciences
  - Psychology (B.A.)
- College of Education
  - Elementary Education (B.S.)
- College of Health and Public Affairs
  - Nursing (R.N. to B.S.N.) (Web-based)

**UCF at Osceola**

**Undergraduate Degree Programs**
- College of Education
  - Elementary Education (B.S.)*
  - Exceptional Education (B.S.)*
- College of Business Administration
  - General Business Administration (B.S.B.A.)

*Admission by cohort only. Please see advisor for additional information.

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**Central Florida Research Park**

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

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

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

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

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

**Endowed Chairs**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Devos/Orlando Magic Sport Business Management Endowed 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 research, programs, and support services for the Institute for Economic Competitiveness, College of Business Administration.

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

Office of Undergraduate Studies
Dean: John F. Scholl; MH 311; 407-823-4197

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

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

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

International Services Center
Associate Director: Natalya Chandia CMMS (Building #81); 407-823-2337

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

UCF Public Safety and Police
The UCF Police Department is a full-service law enforcement agency. The 50 certified police officers provide police services twenty-four hours a day, seven days a week. The Patrol Division patrols the campus on foot, marked patrol cars, canine units, and on marked motorcycles. The Investigations Unit (407-823-5980) consists of five detectives who investigate all unresolved criminal cases.

The Community Relations Unit (407-823-2165) presents crime prevention seminars for property protection and personal safety for the community. The Community Relations Unit also hires and trains students to be the Safe Escort Patrol Service (SEPS) 407-823-2424, which is an evening escort service for all individuals on campus (Sunday through Thursday evenings, 7:00 p.m. to 1:00 a.m.). The Victim Services Unit (407-823-6332/6069) provides services for: 1) emotional support and practical assistance; 2) information and referrals for education. The Parking Services Division (407-823-5812) maintains campus parking and provides assistance to stranded motorists. For more information about parking regulations, online registrations for parking decals, and the UCF Shuttle Program, see their website at http://parking.ucf.edu

UCFPD publishes a complete brochure titled Knight’s Safety Guide. The Knight’s Safety Guide presents an overview of all police services and offers crime prevention tips and campus crime statistics in compliance with the Federal Crime Awareness and Security Act of 1990. A copy of the Knights Safety Guide is available at the Undergraduate Admissions Office, Human Resources Office, and the University Police Department. The UCF Police Department offers security by students and staff. For more information the UCFPD website is http://police.ucf.edu

Information Technologies and Resources
Vice Provost: Joel L. Hartman; MH 350; Phone 407-823-6778 http://reach.ucf.edu/intr

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: Barry B. Baker; LR 512; 407-823-2564

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


University Libraries offers a variety of information resources and services. An extensive print resource collection includes 1.5 million volumes, 12,800 journal subscriptions, 2.9 million microforms and 39,000...
media titles. The libraries’ rapidly growing electronic resources include 400 databases, 40,000 e-books, and 5,650 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. 30 Group study rooms are available to students for collaborative research and study.

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/ 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 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 from Special Collections supports the research, teaching, and service of the UCF community. These special materials, which are easily replaced 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 on the World Wide Web. The Libraries partners with other university libraries and local institutions through Florida Memory, 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/Default.htm or call 823-2791.

The Universal Orlando Foundation Library, a new branch of UCF Libraries, is located at the Rosen College of Hospitality Management in the heart of the tourist corridor on Universal Boulevard. Though the faculty primarily serves the students, faculty, and staff of the Rosen School, the library is open to the entire UCF community as well as 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

Computer Services and Telecommunications

Director: Robert Yancikello; CSB 305; 407-823-2711
http://www.oir.ucf.edu

The department of Computer Services and Telecommunications (CST) provides technical support for all aspects of the university’s computing, networking, and telecommunications. Additionally, the department maintains several public workstations labs located throughout campus as well as a professionally staffed computer store that facilitates the purchase of software or hardware at competitive prices.

CST provides and supports application/systems development, document imaging services, web hosting services, email and academic support services as well as Teledata services; including telephone, cable TV and other communication services. For additional information please visit our web site at http://www.compserv.ucf.edu

Office of Instructional Resources

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

The Office of Instructional Resources (OIR) supports UCF administrators, faculty, and staff with multimedia design and production, digital media, webcasting, ISDN video conferencing, video streaming, video over IP, interactive video course delivery, video production, audio production, digital photography, graphics, and a full range of multimedia classroom support services. OIR manages UCF’s interactive video network, which includes eight origination rooms on the Orlando campus and sixteen receiving rooms at regional campus locations. OIR’s facilities include the Digital Image Processing Lab (DIPL), located in the Research Pavilion (Suite 129A) 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 Video 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 300 advanced multimedia classrooms and eight interactive video origination classrooms 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 at South Orlando, and other regional locations. OIR provides Ku and C-band satellite reception, cable television delivery on the Orlando campus, ISDN (384k) and IP-based videoconference equipment and services.

Course Development and Web Services

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

Course Development and Web Services (CDWS) develops systems and standards to support campus Web development at the University Of Central Florida (UCF). The unit supports major institutional Web initiatives including online learning (http://reach.ucf.edu), UCF’s main Web site (http://www.ucf.edu), UCF’s Web portal (http://my.ucf.edu), and special projects such as the AskUCF online Q and A service (http://ask.ucf.edu), and the UCF Virtual Tour (http://www.ucf.edu/vtour). CDWS brings to these projects extensive production resources and expertise in project management, instructional design, digital media, video, new media, and Web programming.

CDWS also provides professional development () activities for faculty and staff. Examples include IDL6543 (http://reach.ucf.edu/~id6l6543), ADL5000 (http://reach.ucf.edu/~adl5000), and the WebCT Academy (http://reach.ucf.edu/~webct411).

CDWS offers student support through the Learning Online Web site (http://learn.ucf.edu), and faculty support through the Teaching Online Web site (http://teach.ucf.edu). UCF students play an active role in supporting CDWS projects. The Techrangers, a student Web programming team, build online courses and other Web projects while conducting Web related research and development activities.
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, and competes in the Atlantic Sun Conference, and competes in the Mid-American Conference for football. Intercollegiate athletics contests are governed by the rules of play published by NCAA and all established eligibility standards are observed. UCF's current intercollegiate sports for men include baseball, basketball, cross country, golf, football, soccer, and tennis. Women's sports include basketball, cross-country, golf, rowing, soccer, softball, outdoor and indoor track and field, tennis, and volleyball.

Graduation Rate Disclosure
The completion or graduation rate is the rate at which full-time, certificate-seeking or degree-seeking undergraduate students who are enrolled 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 2002 students is 83.0 percent. The information is public and available for review in the UCF Library.

UCF Arena
The UCF Arena is an indoor, multipurpose facility that opened in August of 1991. The Arena is host to a variety of campus events, including all commencement ceremonies, men's and women's basketball games, volleyball games, concerts 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 in the John T. Washington Center, is the text book and course material destination. It offers a complete line of UCF clothing, logo gift items, convenience and snack items, as well as a full service Starbucks cafe. Operating hours when classes are in session are, Monday through Thursday 8:00 a.m. to 7:00 p.m., Friday 8:00 a.m. to 5:00 p.m., and Saturday 10:00 a.m. to 2:00 p.m. For more information call 407-823-2665 or visit the website at http://ucf.bkstore.com.

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

The Student Transportation Shuttle Service provides transit needs for student 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 Shakesperience®. 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, 407/447-17-17, 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, AlumnKnight 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) 330-ALUM; or connect anytime at www.ucfalumni.com.

UCF Foundation, Incorporated
The UCF Foundation, Incorporated is a non-profit, tax-exempt corporation directed by a 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.
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.

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

DIVISION OF MARKETING, COMMUNICATIONS, AND ADMISSIONS

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

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
Interim Associate Vice President: Mark Allen Poisel; PH 216 (407) 823-2137, http://www.adr.sdes.ucf.edu
The Unit of Academic Development and Retention facilitates successful student transitions and experiences by providing the foundation and support for their academic, personal and career success.

Academic Services for Student-Athletes (ASSA)
Director: TBA; 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;
- 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, WDSC 123; 407-823-5243
http://www.ncase.org

The mission of the National Consortium for Academics and Sports at the University of Central Florida is to help create a better society by focusing on educational attainment and using the power and appeal of sport to positively affect social change in the Central Florida community. The NCAS reaches this mission by building partnerships between the University, local schools, community organizations, and other non-profit agencies that also are committed to serving the community. For additional information, visit the National Consortium for Academics and Sports website at www.ncasports.org.

First Year Transitions (FYT)
Interim Assistant Vice President, DeLaine Priest: PH 113; 407-823-5130; http://fyt.sdes.ucf.edu

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

Academic Exploration Program (AEP)
407-823-5322; 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 in selecting a career and major. Students are provided major exploration and career development connections as primary advising initiatives so students may assess, explore, plan, and decide on their future major at UCF. AEP has several components including coordinating academic advising services from a first year advising office, online assessments, and activities through a program called Golden Opportunities coordinated by the Career Resource Center. 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: TBA; PH 116; 407-823-3769
http://firstyear.sdes.ucf.edu

UCF recognizes that starting in a new learning environment can present many challenges to 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 initiatives 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.

Student Academic Resource Center (SARC)
Director: DeLaine Priest; PH 113; 407-823-5130
www.sarc.sdes.ucf.edu

The Student Academic Resource Center provides high-quality programs 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 for how to learn the subject matter.

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

Each semester, SARC also offers a series of academic workshops designed to address common student issues. Among these are test-taking strategies, time management, reading effectiveness, and memory improvement. Additionally, preparatory workshops are offered for the math portions of the College Level Academic Skills Test (CLAST) and General Knowledge exam. Computer assisted learning programs also are 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 also is available for students who need study skills advice or who wish to enhance their educational experience. For additional information, visit the Student Academic Resource Center website at http://sarc.sdes.ucf.edu.

University Testing Center (UTC)
Assistant Director: Rebecca Piety; 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), the Grammar Proficiency Exam (GPE); and the Institutional Academic College Test (ACT) and College Level Examination Program (CLEP). It also administers the following national exams:

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

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

Transfer and Transition Services
Director: Charlene Stinard; PH 102; 407-823-2231
http://transfer.sdes.ucf.edu

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

- General advising and referral for transfer students before and after they enroll at UCF;
- Advising for transfer students who are undeclared majors, undecided, or changing majors;
- Current information about university programs and policies including entrance and exit requirements;
- Assistance in resolving issues once students have transferred;
- 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 web-
Division Of Student Development And Enrollment Services

site 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 support, academic advising, and registration. Every freshman and transfer student is required to attend an orientation session prior to registering for classes. Students register for the program and get further information by visiting the Orientation Services website at http://orientation.sdes.ucf.edu

Career Services & Experiential Learning (CSEL)
Executive Director, Melanie Parker; SRC 185;
407-823-2361 (Career Services)
407-823-2667 (Experiential Learning)
http://www.cse1.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 developmental 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: Catherine Steel, Ph.D.; SRC 203; 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 and operates on an appointment basis. Among the services offered by the Center include:

- Short-Term Individual Counseling
- Group Counseling and Workshops
- Crisis Intervention
- Couples Counseling
- Professional Consultation
- Outreach and Presentations
- Career Assessment and Counseling
For additional information, visit the Counseling Center website at http://www.counseling.sdes.ucf.edu

Registrar’s Office
University Registrar: Dennis J. Dulniak; MH 161; 407-823-3100
Registration Helpline: 407-823-3533
E-mail: registrar@mail.ucf.edu; 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 records management from registration through graduation and archived data stores. The office maintains the integrity of student permanent academic records and coordinates and enforces University policies and procedures campus-wide through cooperation, communication, and leadership. 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 dependents must be certified through Veteran Services each term to receive VA educational benefits. The office monitors the academic progress of all those receiving VA educational benefits. All veterans and eligible dependents are urged to consult Veteran Services early in the UCF admissions process.

Students eligible for VA educational benefits must certify each term with Veteran Services after they enroll for classes. To maintain eligibility for VA education benefits, students must adhere to the policies and procedures VA educational benefits. A copy of the “Student Veteran Handbook” can be obtained on the 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 CCAF transcripts to the Undergraduate Admissions Office.

Students eligible for VA educational benefits may also be eligible for a VA deferral of tuition and fees. The VA DA (Veterans Administration) Deferral form is available online at http://www.va.sdes.ucf.edu. Students are urged to complete the VA DA form immediately after being admitted to UCF then submit the completed form to Veteran Services.

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.

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

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

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

Student Disability Services (SDS)
Director: Philip Kalfin; SRC 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, assistance with coursework 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 Telecommunication Device for the Deaf (TDD)/Text Telephone (TTY) is available for deaf/hard-of-hearing or speech-impaired persons with TDDs/TTYS to contact Student Disability Services (TDD/TTY calls only phone 407-823-2116).

Administrative Services
Assistant Vice President: Sharon Ekern; MH 282; 407-823-3167 http://www.admin.sdes.ucf.edu

Activity and Service Fee Business Office
Director: David L. Pavlonis; 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 203. The Student Government Computer Lab has 23 computer stations available and is the only lab that provides FREE printing to currently enrolled students. Our office also manages the Student Government Ticket Center which sells a variety of discounted tickets to local amusement parks and movie theaters, and is also an authorized Tickemaster Retail Outlet.

Alcohol and Other Drug Programming
Interim Director: Tom Hall; MH 272; 407-823-0879 www.aod.sdes.ucf.edu

The Alcohol and Other Drug Programming Office offers a wide variety of services, including education, prevention, alcohol and other drug assessment/evaluation, short term intervention, counseling, and referrals. This office coordinates with many other campus and community programs to create a healthy environment for students to study, work and play in. We provide programs, activities and support services to encourage individuals and groups to make 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 REACH Health and Peer Education Program (Responsible Education and Action for Campus Health).

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

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

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

Campus Life
Associate Vice President: Craig E. Ulloim; 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, Affordable 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 Hartzler; HAB 101; 407-823-4663 http://www.housing.ucf.edu

Regularity 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 Court Yard 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.
Division Of Student Development And Enrollment Services

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 spaces. 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 session contracts are for the summer only and do not extend to include the fall semester. The Rosen College of Hospitality Management Apartments and the Convocation Center Apartments are annual contracts.


Applicants have the option of choosing one of several University meal plans. Specific information concerning University meal plans is available from UCF Dining Services, UCF PO Box 168017, Orlando, Florida, 32816. Web site: www.ucf dining.com.

LINK First Year Experience
Assistant Director of Housing and Residence Life: Jeff Novak Coordinator for Residence Education: Rebecca Morales Academic Village, Nike Community Office; 407-882-7005, www.link.ucf.edu

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 able to learn and experience the citizenship and overall success and satisfaction at UCF.

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 educational experience and help first-year students develop the skills necessary to be successful in college. The LINK Program packages these educational programs under the LINK name and promotes them to first-year students in such a way to encourage their active participation.

As an incentive to encourage first-year students to participate in these educational programs, New Knights receive points for every LINK program in which they participate. These points are known as LINK Loot. First-year students can acquire LINK Loot by 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 Loot points 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 www.link.ucf.edu.

Off-Campus Student Services (OCS)
Assistant Vice President and Director: Jimmy Watson; HAB 101; 407-823-6505; http://www.housing.ucf.edu/ocs

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

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

UCF Regional Campus Student Services
Interim Director, Southern 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 student housing. The offices also provide programming and assistance to clubs and organizations as well as various standard student services.

Student Government
Assistant Directors of OSI/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 sports, festivals, activities, financial aid services, and many more.

Student Health Services (SHS)
Director: Robert Faust; SHC; 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 407-823-1091). Please remember that optional health and accident insurance is not part of the Student Health Services program, but is designed to provide for health coverage needs that are beyond the scope of Student Health Services.
such as hospital referrals. Charges incurred outside the Student Health Center are the responsibility of the student.

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

When the Student Health Center is closed, students may 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: TBA; SU 208; 407-882-0152
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, Rosen College 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.

Greek Affairs

Director: Gregory Mason; SU 208; 407-823-2824; (Greek Council Office, SU 208, 407-823-2072)
http://www.greeklife.sdes.ucf.edu

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

Sorority or fraternity life can offer students a “home away from home,” a source of social contacts, a scholastic support system, an organization for community service, hands-on experience in running a working entity, and a foundation for long-lasting friendships. Currently, 41 fraternities and sororities involve more than 3,100 students. Greek organizations give college men and women a chance to excel in any area they choose and include students of every race, faiths and Ministries. The director of Student Leadership Programs exists within these three services.

Campus Faiths and Ministries

Director: TBA; 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 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
SRC 155; 407-823-6960; http://www.osrr.sdes.ucf.edu

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

Dispute Resolution Services

Coordinator: Patty Farris; SRC150; 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 interper-
sonal disputes while promoting individual responsibility. Mediation is a private, voluntary, decision-making process in which one or more impartial persons (mediators) assist people, organizations, and communities in conflict to work toward a variety of goals. This service is available to the University community and is encouraged for those who have been unsuccessful in resolving their differences. Mediation training is conducted several times each semester and is offered at two different levels: 1) a basic introduction to conflict resolution skills and mediation techniques session; and 2) as an advanced mediation techniques session. Mediation services are provided to 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  
**SRC 154; 407-823-2851**  
http://www.osi.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 MacKown; SRC 155; 407-823-2538  
http://www.stulegal.sdes.ucf.edu

Student Legal Services provides students with advice and consultation, including court representation, in selected areas of law such as landlord/tenant, consumer, simple wills, traffic, and criminal. Each eligible student (i.e., an undergraduate or graduate student currently enrolled in UCF) is entitled to consult free of charge with a Program Attorney about any legal matter not excluded by program guidelines. Students in need of legal services should contact Student Legal Services at 407-823-2538, or visit 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.osi.sdes.ucf.edu

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

**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 with RWC, sponsors a wide variety of health-related classes, lessons, and programs throughout the year. Playing fields and tennis courts adjacent to the building are available to students when not in use for scheduled events. The Recreation and Wellness Center is open to all students with a valid UCF ID. Memberships are available for non-students. The Recreation and Wellness Center staff also operate the Lake Claire recreation area, located just north of Greek Row. Lake Claire offers picnic facilities, watercraft, and a nature trail. The facilities can be reserved for group activities by calling 407-823-5011.

**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, The Sweet Retreat, Steak Escape, Uncle Al's Famous Hotdogs, Subway, Wendy's, Baja Burrito Kitchen, Mrs. Field's, Pretzel Time, and Wackadoo's Grub and Brew. 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, and ATMs from SunTrust, Bank of America, and the UCF Credit Union. For information, call 407-823-0001.

**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 teams, dual, and individual sports, including perennial favorites flag football, basketball, soccer, and floor hockey. Several competition divisions are offered to accommodate various skill levels.

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

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

**Multicultural Academic and Support Services (MASS)**
**Assistant Vice-President:** A.J. Range; PhD 221; 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.

**Creative School for Children**
**Director:** Marcia Diebler; CSC; 407-823-2726  
http://www.csc.sdes.ucf.edu

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

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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.
**Admission to the University**

Freshmen 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.

Any applicant’s total high school record (including grades, test scores, educational objective, quality of courses completed, counselor recommendations, essay, and personal achievements and honors) will be considered in the selection process. The University reaffirms its Equal Educational Opportunity (EEO) commitments and seeks to increase diversity among the student body.

High School Diploma

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

**Entrance Examination Scores**

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

**High School Academic Units and Grade Point Average**

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

**Academic Subjects**

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

**Total Units** - 18

**Student Eligibility**

Applicants must meet the following Department of Education (DOE) minimum eligibility index standards to be considered for admission.
## Undergraduate Admissions

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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 the time of graduation.

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

### Transfer Applicants With Fewer Than 60 Credit Hours

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

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

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

- At least 60 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 programs; and
7. Equal opportunity with native university students to enter limited programs.

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

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

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

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

Meeting these minimum requirements does not guarantee admission.

Second Bachelor's Degree Applicants

Second Bachelor’s Degree applicants are processed by the Undergraduate Admissions Office or the Registrar’s Office. Guidelines for which office students should make application to are outlined as follows:

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

Credits From a Previous Baccalaureate Degree

Graduates from other regionally-accredited four-year U.S. institutions who apply for admission to 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, World Education Services
  P.O. Box 248233.
  P.O. Box 745,
  Coral Gables, FL 33124,
  Old Chelsea Station,
  New York, NY 10113-0745,
  (212) 966-6311

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 college. Credit is not awarded based on job descriptions, life experience, or course work that is non-academic.

Accredited Institutions

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

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

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

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

General Education Transfer Credits

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

Credits From Private and Out-of-State Institutions

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

Credits From Military Service School Courses

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

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

Baccalaureate Honors

Transfer students should be aware that eligibility for graduation with baccalaureate honors requires the completion of a minimum of 48 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 financial resources for all students. Once eligibility is determined, the office provides options for financial aid. 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 Polaris.

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;
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 counted toward overall credit. 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 time or any other institution; Students must provide all information requested for the completion of their file. If selected, verification must be completed within specified deadlines and prior to the receipt of all federal and most state and institutional funds.

Students must notify the Office of Student Financial Assistance of any changes in their housing status, household size, or family members in college from that listed on their FAFSA; Students must reapply annually for financial aid; Students must complete an entrance interview for a Federal Stafford Loan if they are a first time borrower at UCF; Students must be a U.S. citizen or an eligible non-citizen, (e.g. resident alien). Eligible non-citizens include 1-151, 1-581, and 1-688 cardholders as well as some I-94 classifications; Students must have a high school diploma or GED certificate; For need based programs, students must show a financial need as computed on the FAFSA; A male applicant must be registered with Selective Service, if applicable.

Helpful Hints

Apply early to be considered for the full range of financial aid available each year by completing the Free Application for Federal Student Aid (FAFSA)/Renewal FAFSA. The processed results of the FAFSA must be received by UCF from the federal processor by March 1 to meet our application priority deadline date; Make a copy of tax return forms before submission to IRS; Start a folder to save financial aid information and photocopies of all documents filed and received. Include student's name and PID on all documents submitted. (Do not submit originals; documents will be shredded after scanning.); Maintain a current e-mail and mailing address on Polaris 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.

Financial Information

Transportation $ 1,540.00 $ 1,540.00
Total (In State) $11,968.00 $15,908.00
Non resident Tuition/Fees $12,256.00 $12,256.00
Total (Out of State) $24,224.00 $28,164.00

Financial Aid Programs Available at UCF

Financial aid comes in many forms, such as grants, loans, employment, waivers, and scholarships. The Program Eligibility Charts on the Web site under "Receiving Aid" list the various programs and their specific enrollment requirements. Detailed information for each program can also be found on the Web site under its particular title. Grants are considered gift aid and do not have to be repaid. Only undergraduate students who have not previously received a bache-loir 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 under-graduate 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 counted toward a student's enrollment. Admission to UCF must be finalized with no contingencies. Students must be classified as degree seeking. Verification must be completed. Students must meet the Standards for Satisfactory Academic Progress. If all eligibility is met, financial aid funds may be disbursed. It is the student's responsibility to be aware of minimal hourly requirements for each program, which can be found on the Program Eligibility Charts on the Web site. When requirements are no longer met, awards will be adjusted as necessary and will appear on Polaris. 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 Polaris 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 to not 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.

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>Housing Status</th>
<th>Living with Parent</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition/fees</td>
<td>$3,126.00</td>
<td>$3,126.00</td>
<td></td>
</tr>
<tr>
<td>Books/Supplies</td>
<td>$860.00</td>
<td>$860.00</td>
<td></td>
</tr>
<tr>
<td>Room/Board</td>
<td>$4,306.00</td>
<td>$8,246.00</td>
<td></td>
</tr>
<tr>
<td>Personal Exp.</td>
<td>$2,136.00</td>
<td>$2,136.00</td>
<td></td>
</tr>
<tr>
<td>Transportation</td>
<td>$1,540.00</td>
<td>$1,540.00</td>
<td></td>
</tr>
<tr>
<td>Total (In State)</td>
<td>$11,968.00</td>
<td>$15,908.00</td>
<td></td>
</tr>
<tr>
<td>Non resident Tuition/Fees</td>
<td>$12,256.00</td>
<td>$12,256.00</td>
<td></td>
</tr>
<tr>
<td>Total (Out of State)</td>
<td>$24,224.00</td>
<td>$28,164.00</td>
<td></td>
</tr>
</tbody>
</table>
Financial Information

### 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. Not available to post-baccalaureate students.

#### Federal Stafford Loan Program
Repayment may be deferred. Loan amounts vary as well as interest rates and repayments options.

#### Federal Perkins Loans
Currently are made at 5% interest rate; loans deferred until 8 or 9 months after the student graduates or drops below 1/2-time. Not available to post-baccalaureate students.

### Scholarships

A broad range of scholarships are available through federal, state, institutional, and private sources. Each has different eligibility criteria. Consult the “Scholarship” online listing for more information. Inquire about ROTC scholarships at the ROTC office.

#### Federal Unsubsidized Stafford Loans
These loans operate under the same terms as regular Federal Stafford Loans except that financial need is not necessary. In addition, the student is responsible for the payment of interest as it accrues, (alternatively the interest can be capitalized into the loan balance).

#### Federal Parent Loans for Undergraduate Students (PLUS)
These are loans that parents take out on behalf of their children (student must be dependent for financial aid purposes).

### Procedures to Appeal:

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. To appeal, the student must:

- Complete the Satisfactory Academic Progress Appeal Form;
- 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.

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<table>
<thead>
<tr>
<th>Program Type</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>
</tr>
<tr>
<td>Federal SEOG (Supplemental Educational Opportunity Grant)</td>
<td>March 1</td>
<td>12</td>
<td>No</td>
</tr>
<tr>
<td>UCF Grant</td>
<td>March 1</td>
<td>12</td>
<td>No</td>
</tr>
<tr>
<td>FSAG (Florida Student Assistance Grants)</td>
<td>March 1</td>
<td>6</td>
<td>No</td>
</tr>
<tr>
<td>Federal College Work Study</td>
<td>March 1</td>
<td>6</td>
<td>Yes</td>
</tr>
<tr>
<td>FSAG (Florida Work Experience Program)</td>
<td>Varies</td>
<td>6</td>
<td>No</td>
</tr>
<tr>
<td>Federal Stafford Loan Program</td>
<td>Posted each term</td>
<td>6 at UCF classes</td>
<td>Yes</td>
</tr>
<tr>
<td>Federal Perkins Loans</td>
<td>March 1</td>
<td>6</td>
<td>Yes</td>
</tr>
<tr>
<td>Scholarships</td>
<td>Varies year round</td>
<td>Varies</td>
<td>Yes</td>
</tr>
<tr>
<td>Federal Unsubsidized Stafford Loans</td>
<td>Posted each term</td>
<td>6 at UCF classes</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>
</tr>
</tbody>
</table>
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 ensure 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 aid 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

Schedule of Fees

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

Students are encouraged to obtain a “Fee Invoice” to confirm fees and course registration. Fee Invoices are not mailed. Fee Invoices are available online through https://My.UCF.edu and kiosks, and from the student’s college advising offices. Students must obtain a new “Fee Invoice” after making any course changes or schedule adjustments.

All University fees must be paid according to published dates. Fees not paid by the payment deadline date for each term will result in late fees and could result in the cancellation of all classes. The following schedule applies to all UCF students:

Registration Fees per semester or term are shown for main campus, area centers, and continuing education courses. Zero hour registration students are assessed one credit hour at the Florida Resident Tuition rate at the course level for which the student is registered.

Late Registration Fee

Students who enroll following the close of Add/Drop for the term or who enroll for the first time that term during Late Registration and Add/Drop will be assessed a Late Registration Fee of $100.00.

Pay Now or Pay More

Late Payment Fee:

A $100 Late Payment Fee applies to students who do not pay their fees or who do not pay their fees (or obtain a fee deferment) by the payment deadline.

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."

Late Registration Fee and Late Payment Fee Appeals

Students who desire to appeal a Late Registration, and/or Late Payment, may make their appeal to the Fee Appeals Committee by initiating a student petition (Form 41-561). This form can be obtained online at www.finacctg.ucf.edu/Student Accounts forms or from the Student Financial Assistance Office.
Financial Information

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

Past Due Accounts
All financial obligations to the University must be met. Failure to meet obligations can result in the withholding and denial of registration and readmission to the University. The services of a professional collection agency and recourse to the courts may also be invoked if deemed necessary. All costs of collection, including attorney’s fees, are borne by the debtor.

Acceptable Forms of Payment
Acceptable forms of payment are cash, cashier’s checks, money orders and credit cards. Credit card payments or at the Cashier’s Office (MH 109). A mandatory, nonrefundable $10 convenience fee will be charged each time a student chooses to pay tuition or other state mandated fees online with a credit card.

Payment Procedures
Payment must be received or postmarked no later than the fee payment deadlines specified. Payment may be made at the Cashier’s Office (MH 109). Operating Hours are Monday and Thursday from 9:30 a.m. to 6:00 p.m., and Tuesday, Wednesday and Friday from 8:30 a.m. to 4:00 p.m. Students may submit payment after Cashier’s Office operating hours at the Cashier’s night depository (located at the pond entrance of Millican Hall) or through the enrollment screen “ePay” option on Polaris at https://My.ucf.edu. Payments (no cash) placed in the night depository by the official fee payment deadline will be charged “on time.” Students may also submit payment by mail. Mailed payments must be postmarked no later than the payment deadline. Please include the student’s PID on checks or money orders.

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

Do not send cash. Address payments to:
University of Central Florida
P.O. Box 918449
Orlando, FL 32891-8449

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

Refund of Fees
A refund of fees will be 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 circumstances allow a full refund: 1) when 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 to a course offered by the University for any reason.

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

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

Repayment of Title IV Financial Aid
Any student receiving Title IV Federal Financial Aid who completely withdraws from the University before 60% of the term has elapsed may be required to repay a pro-rated portion of the aid received.

Tuition Waivers
State of Florida Employees Tuition Waiver
Full-time state employees may be allowed to enroll for up to six (6) credit hours of eligible instruction per term on a space-available basis without payment of registration fees. State Employee registration occurs on the last day of Registration for each term, at the time specified on the Academic Calendar (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term. Should the Employees register...
for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will become invalid and the Employee will be liable for all applicable fees. It is the responsibility of the employee to register on a space-available basis only. The tuition waiver cannot be used for courses that have increased costs. These courses include, but are not limited to, continuing education courses, independent study, supervised research, supervised teaching labs, thesis hours, dissertation, internships, practicums, third attempt, repeat course surcharges, co-ops, or applied individualized instruction in Music, Art, or Dance, etc. Any State Employee who uses an Employee Tuition Waiver for approved courses must submit a completed and signed tuition waiver form to the UCF Student Accounts Office (MH 107) by each term's Fee Payment Deadline. See the Academic Calendar (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term for the Fee Payment deadlines. Employees may obtain the “State Employee Waiver Form and Instructions” from the Registrar’s Office web-site at http://registrar.ucf.edu.

UCF Employee Tuition Policy

All full-time general Faculty, Administrative and Professional (A&P), and University Support Personnel System (USPS) employees of the University of Central Florida who are employed in an established position on the date fees are due and who meet academic requirements, including those employees on sabbatical, professional development, grants-in-aid, and educational leave, may be allowed to enroll for up to six credit hours of eligible instruction per term on a space-available basis without payment of the registration fee. UCF Employee Tuition registration occurs on the last day of Registration for each term, at the time specified on the Academic Calendar (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term. Should the UCF Employees register for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will become invalid and the UCF Employee will be liable for all applicable fees. Any UCF Employee who uses the Waiver for approved courses must submit a completed and signed Tuition Waiver Form to the UCF Student Accounts Office (MH 107) by each term's Fee Payment Deadline. See the Academic Calendar (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term for the Fee Payment deadlines. Employees may obtain the “State Employee Waiver Form and Instructions” from the Registrar’s Office web-site at http://http://www.ucf.edu/toplinks/academic_calendar.htm eligibility requirements, course restrictions and for the waiver application form.

Tuition Fees for Senior Citizens

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

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 tuition & 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 fee payment deadline.

The plan will pay $76.32 per credit hour (graduate or undergraduate level) for the 2004-2005 academic year. The plan does not cover the local fees of $23.08 per credit hour, health fee, material/supply fees or the UCF ID Service and Access fee. Students with the local fee plan, which is indicated on your Florida Prepaid Tuition Plan card, will cover $95.50+ per credit hour and health fee. For further details on the Florida Prepaid Tuition Plan please visit our website http://www.finacctg.ucf.edu and click on Student Accounts, Forms & Instructions, and then Florida Prepaid Tuition Plan Procedures. Note: the tuition rates had not been established at the time of printing.

Florida Residency for Tuition Purposes

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

To qualify as a Florida resident for tuition purposes in accordance with State regulations, the student must be a United States citizen, resident alien, parollee, 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 residency 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 the Clerk of the Court notes that the declaration was sworn and subscribed to.)

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

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

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

a. Declaration of Domicile;

b. Florida voter registration;

c. Florida vehicle registration;

d. Florida driver license;

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

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

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

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

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

j. Proof of reliance upon Florida sources of support;

k. Proof of domicile in Florida of family;

l. Proof of admission to a licensed practicing profession in Florida;

m. Any other factors peculiar to the individual that tend to establish the necessary intent to make Florida a permanent home and that the individual is a bonafide Florida resident, including the age and
Financial Information

- n. general circumstances of the individual;
- 3. No contrary evidence establishing residence elsewhere;
- 4. Documentation of dependent/independent status (notarized copy of most recent IRS tax return)

Or

- Be married to a person who has been a legal resident of the State of Florida for the required 12-month period and relinquish legal ties to any other state,
- Be a member of the Armed Forces on active duty stationed in Florida, or a spouse or dependent,
- Be a member of the full-time instructional or administrative staff of a state public school, community college, or university in Florida, a spouse or dependent,
- Be a dependent and have lived five years with an adult relative, who has established legal residence in Florida,
- 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,
- Be a full-time Latin American or Caribbean student who receives scholarships from the federal or state government,
- 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,
- Be a graduate student of the Southern Regional Education Board’s Academic Common Market attending Florida’s state universities,
- Be a full-time employee of a state agency or political subdivision of the state when the student fees are paid by the state agency or political subdivision for the purpose of job-related law enforcement or corrections training,
- Be a U.S. Citizen who is a McKnight Doctoral Fellowship recipient,
- Be a qualified beneficiary under the Florida Pre-paid Post-secondary Expense Program per s.240.551(7)(a),
- 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 determinations as to residency within the bounds of the law and in reaching this professional judgement will evaluate all documents submitted and information available. No single document shall be conclusive.

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

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

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

Freshman (First Time in College - FTIC)
Every incoming Freshman is assigned a professional first year academic advisor in one of the four offices listed below. These advisors also collaborate with the University’s colleges and schools and link students to advisors in various academic programs. The assignment of a first year advising office will be based on the specialized services of each program and the student’s particular needs. Please note 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 (WSDC 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 221)
   d. First Year Advising and Exploration (FYAE) - for students not covered by any of the previous categories (PH 116)

Through these offices students can access general education advising, the academic exploration program for undeclared students, academic support, registration assistance, and on-going information about University policies and procedures throughout the first year experience. For more information about the first year advising offices and their services, please see the “Student Development and Enrollment Services” chapter of this Undergraduate Catalog.
3. Participate in programs and advising activities that will promote a successful transition from high school to the university.
4. Transition to an academic advising office within the college of the student’s chosen major at the beginning of the sophomore year.

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.

The Burnett College of Biomedical Sciences
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.

Continuing students will:
1. See their faculty advisor during the first few months of each semester to check progress toward graduation and selection of program courses. The faculty advisor’s name and phone number appear on the SASS Degree Audit each term;
2. See an advisor in the Department of Molecular Biology and Microbiology (HPA 325) 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;
3. View a SASS Degree Audit, the registration time, and search for classes (once the class schedule is available) through MyUCF;
4. Register at the scheduled appointment time. Complete all schedule changes by the end of the published add/drop period; and,
5. File an “Intent to Graduate Form” in the Department of Molecular Biology and Microbiology by the end of the term prior to the term in which graduation will occur.

Pre-Health Professions Advisement
The Pre-Health Professions Advisement Office (HPA 124; 407-823-2670) serves all students preparing for and seeking admission to professional schools of chiropractic, dentistry, medicine, osteopathic medicine, optometry, pharmacy, podiatry, and veterinary medicine. The services range from basic advising in pre-health professions

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Academic Advising

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 curriculum will permit other appropriate pre-health professions courses to be obtained. All pre-health professions students are strongly encouraged to participate in the activities of one or more of the student health related organizations.

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

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

General Biological Sciences  
  BSC 2010C, 2011C  
Genetics  
  PCB 3063  
General Chemistry  
  CHM 2045C, 2046, 2046L  
Organic Chemistry  
  CHM 2210, 2211, 2211L  
Microbiology  
  MCB 3203  
Calculus  
  MAC 2333 (prefer MAC 2311, 2312)  
Physics  
  PHY 2053C, 2054C (prefer PHY 2048, 2048L, 2049, 2049L)  
Statistics  
  STA 2023  

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

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

New students will:

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

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

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

New students will:
1. Meet college advising representatives in a group setting during Orientation to discuss college policy, procedures, and degree programs;
2. Review degree requirements at Orientation using SASS Degree Audit and catalog to better understand degree requirements and learn how to read a SASS Degree Audit;
3. Meet with 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 Polaris. Check Polaris or the TV monitors for registration dates each term;
3. Register at your scheduled appointment time. Register in Polaris if you are in your major. All changes to your schedule must be completed by the end of the Add/Drop period;
4. Complete all prerequisites prior to admission to upper division classes; and,
5. Meet with 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
Continuing students will:
1. Set up an appointment with a faculty advisor if accepted in a major or the Office of Student Services, if a "Pending" major, to review academic progress and to develop an academic plan. Review this plan each term with an advisor prior to registration;
2. View a SASS Degree Audit through Polaris;
3. Register at scheduled appointment time in Polaris. Students with extenuating circumstances may register in person in the College of Education Office of Student Services. Students must complete any changes to their schedules by the end of the published Add/Drop period; and,
4. File an "Intent to Graduate Form" in the College of Education by the end of the term prior to the term in which graduation is intended.

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

Continuing students will:
1. See the department of their major during the first few weeks of each semester to be assigned a faculty advisor. Computer Science majors will be assigned a faculty advisor once they have passed the Computer Science Foundation Exam. Until that time, Computer Science majors will be advised by the Computer Science Undergraduate Advising Office in CSB 201C;
2. Set up an appointment with the faculty advisor to review your academic progress and to develop an academic plan. Review this plan each term with the advisor prior to registration;
3. Use the flow diagram or four year plan received during orientation to progress through the degree requirements;
4. View a SASS Degree Audit, the registration time, and search for classes (once the class schedule is available) through Polaris at https://my.ucf.edu;
5. Register at the scheduled appointment time in Polaris, or in person in the Engineering and Computer Science Academic Affairs Office. Complete all schedule changes by the end of the published Add/Drop period;
6. Submit a written schedule plan signed by their faculty advisor each term if you have been placed on an engineering advisement hold. This plan must be submitted in person to the Engineering and Computer Science Academic Affairs Office each term 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 their faculty advisor, if accepted in a major, during the first few months of each semester to check progress toward graduation and selection of program courses. The faculty advisor’s name and phone number appear on the SASS Degree Audit each term;
2. See an advisor in the College of Health and Public Affairs (COHPA) Office of Student Support (HPA2 115), if pending majors in limited-access programs, during the first few weeks of each semester to check progress toward eligibility for application to the major;
3. View a SASS Degree Audit through Polaris; and,
4. File an "Intent to Graduate Form" in the COHPA Office of Student Support by the end of the term prior to the term in which graduation will occur.

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 Polaris.

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

Regional Campus System
New transfer students may meet with a professional or faculty advisor prior to applying to UCF and at any time while enrolled to discuss programs and requirements. Students will meet with faculty/professional advisors in a group setting during orientation to:
1. Discuss degree program requirements;
2. Understand career options of the major program of study; and,
3. Plan an appropriate first semester class schedule.

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

For a list of the academic programs available through the Regional Campus System, see ‘UCF Regional Campuses' within the "University of Central Florida” chapter of this Undergraduate Catalog.
Transfer and Transition Services

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

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

Students transferring with an A.S. in one of the articulated degree programs should refer to the “Articulated A.S. to B.S. Programs” chapter of this Undergraduate Catalog. Any questions about these programs should be directed to the 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 102. 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 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 cours-
es. 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 will not be granted 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 interdivision course work. UCF accepts the CLAST alternatives and waivers awarded by Florida public community colleges and universities.

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

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

What Are the Foreign Language Requirements?
To be admitted to the University you should complete two years of the same foreign language or American Sign Language in high school (document by submitting an official high school transcript), or 8-10 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 Polaris (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 Polaris. Payments may be made at the Cashier's Office, Millican Hall, room 110, or mailed to:

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

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

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

Can Transfer Students Participate in The Burnett Honors College?
Qualified students who transfer to UCF with an honors A.A. from a Florida public community college that has signed an articulation agreement with The Burnett Honors College will be admitted into University Honors with junior standing. Community college transfers and other students who have completed their general education requirements may participate in the Honors in the Major program through the completion of departmental honors requirements, including an original research project. Transfer students who apply for admission to departmental honors programs must have a minimum GPA of 3.5 in their major. Successful completion of either honors program will be noted on your transcripts and diploma. For more information, call 407-823-2076 or visit the honors 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 fee payments are due by the published deadline, before classes begin.
- Complete the "Student Health Form." Registration will not be allowed without the completion and approval of this form.
- Complete CLAST if possible; however, you can be admitted 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.

Student Academic Resource Center: 407-823-5130.

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Before Completing the A.A.</strong></td>
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<tr>
<td><em><strong>/</strong></em></td>
<td>meet with counselor or advisor for graduation check</td>
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<tr>
<td><em><strong>/</strong></em></td>
<td>complete application for graduation</td>
</tr>
<tr>
<td><strong>Application for Admission</strong></td>
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<tr>
<td><em><strong>/</strong></em></td>
<td>date submitted</td>
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<tr>
<td><em><strong>/</strong></em></td>
<td>date admission status checked at</td>
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<tr>
<td></td>
<td><a href="https://My.UCF.edu">https://My.UCF.edu</a></td>
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<tr>
<td><em><strong>/</strong></em></td>
<td>date of acceptance</td>
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<tr>
<td><strong>Transcripts (original transcript from all institutions attended)</strong></td>
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<tr>
<td><em><strong>/</strong></em></td>
<td>date transcripts sent from all current and prior institutions</td>
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<tr>
<td><em><strong>/</strong></em></td>
<td>date final transcript sent after term completed</td>
</tr>
<tr>
<td><strong>Financial Aid/Scholarship</strong></td>
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<tr>
<td><em><strong>/</strong></em></td>
<td>date financial aid application (FAFSA) sent</td>
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<tr>
<td><em><strong>/</strong></em></td>
<td>date financial aid notification received from UCF</td>
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<tr>
<td><em><strong>/</strong></em></td>
<td>date of SCHOLARSHIP application mailed or transferred</td>
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<td></td>
<td>date of SCHOLARSHIP application response</td>
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<tr>
<td><strong>Housing</strong></td>
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<tr>
<td>on-campus or off-campus</td>
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<tr>
<td><em><strong>/</strong></em></td>
<td>date application sent (include deposit when required)</td>
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<tr>
<td><em><strong>/</strong></em></td>
<td>date accepted</td>
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<tr>
<td><strong>Immunization</strong></td>
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<tr>
<td><em><strong>/</strong></em></td>
<td>date student health form submitted</td>
</tr>
<tr>
<td>Y___ N___</td>
<td>need immunizations</td>
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<tr>
<td><strong>Foreign Language Requirements</strong></td>
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<tr>
<td>Y___ N___</td>
<td>2 years/units earned in high school</td>
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<tr>
<td>Y___ N___</td>
<td>8-10 credits earned at the college level</td>
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<tr>
<td>Y___ N___</td>
<td>credits to be taken at the university</td>
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<tr>
<td>Y___ N___</td>
<td>exempt from foreign language admission requirements</td>
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<tr>
<td><strong>Note:</strong></td>
<td></td>
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<tr>
<td><strong>Program (Major) Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>Y___ N___</td>
<td>limited access application</td>
</tr>
<tr>
<td>Y___ N___</td>
<td>completed prerequisites</td>
</tr>
<tr>
<td>Y___ N___</td>
<td>met grade point average (GPA) requirements</td>
</tr>
<tr>
<td>Y___ N___</td>
<td>met minimum cumulative GPA for admission to program of study</td>
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<tr>
<td>Y___ N___</td>
<td>met cumulative GPA in courses taken for program of study</td>
</tr>
<tr>
<td>Y___ N___</td>
<td>met grade requirements for designated courses</td>
</tr>
<tr>
<td>Y___ N___</td>
<td>audition, portfolio, additional admission requirements met</td>
</tr>
<tr>
<td>Y___ N___</td>
<td>CLASTExam or alternatives</td>
</tr>
<tr>
<td><strong>Orientation:</strong></td>
<td></td>
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<tr>
<td><em><strong>/</strong></em></td>
<td>orientation date at UCF</td>
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</tbody>
</table>
Requirements for Graduation

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

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

Degrees Awarded Posthumously

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

Choice of Catalog (Catalog Year) and Continuous Enrollment

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

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

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

General Education Program (GEP)

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

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

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

General Education Program Learning Objectives

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

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

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

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

General Education Program (GEP) Courses (36 semester hours required)
(Some majors require a specific course or a higher level course in some areas. Consult your major requirements and advisor.)

A. Communication Foundation ........................................ 9 hours
   ENC 1101 English Composition I 1, 2 .......................... 3(3,0)
   ENC 1102 English Composition II PR: ENC 1101 1, 2 .... 3(3,0)
   SPC 1600C Fundamentals of Oral Communication or .... 3(3,0)

B. Cultural and Historical Foundation .............................. 9 hours
   Three courses are required, with at least one from each of the following two groups:

   GROUP 1 Take at least one of the following two-semester sequences:* (minimum of 3 hours)
   - EUH 2000 Western Civilization I and .......................... 3(3,0)
   - EUH 2001 Western Civilization II or .......................... 3(3,0)
   - HUM 2211 Humanistic Tradition I or .......................... 3(3,0)
   - HUM 2230 Humanistic Tradition II or .......................... 3(3,0)
   - AMH 2010 U.S. History: 1492-1877* and .......................... 3(3,0)
   - AMH 2020 U.S. History: 1877-present* or .......................... 3(3,0)
   - WOH 2012 World Civilization I and .......................... 3(3,0)
   - WOH 2022 World Civilization II .......................... 3(3,0)

   GROUP 2 Take at least one of the following. ...................... (3 hours)
   - ARH 2050 The History of Art I .................................. 3(3,0)
   - ARH 2051 The History of Art II .................................. 3(3,0)
   - MUL 2010 Enjoyment of Music .................................. 3(3,0)
   - THE 2000 Theatre Survey ......................................... 3(3,0)
   - FIL 1001 Cinema Survey ......................................... 3(3,0)
   - REL 2300 World Religions ........................................ 3(3,0)
   - PHI 2010 Introduction to Philosophy .......................... 3(3,0)
   - LIT 2110 World Literature I PR: ENC 1102 2 ............... 3(3,0)
   - LIT 2120 World Literature II PR: ENC 1102 2 ............... 3(3,0)

C. Mathematical Foundation ........................................... 6 hours
   Take one course from each group:
   - GROUP 1 MAC 1105 College Algebra 2 .......................... 3(3,0)
   - MGF 1106 Finite Mathematics 2 .............................. 3(3,0)

   - GROUP 2 CGS 1060C Introduction to Computer Science 4 ...... 3(3,0)
   - STA 1060C Basic Statistics using Microsoft Excel 4 .......... 3(3,0)
   - STA 2014C Principles of Statistics 4 .......................... 3(3,0)

D. Social Foundation .................................................. 6 hours
   Take one course from each group:
   - GROUP 1 ECO 2013 Principles of Macroeconomics ............ 3(3,0)
   - ECO 2023 Principles of Economics II ........................ 3(3,0)
   - PSC 2041 American National Government ...................... 3(3,0)

   - GROUP 2 PSY 2012 General Psychology ......................... 3(3,0)
   - SYG 2000 General Sociology .................................... 3(3,0)
   - ANT 2000 General Anthropology ................................ 3(3,0)

E. Science Foundation .................................................. 6 hours
   Take one course from each group:
   - GROUP 1 AST 2002 Astronomy ..................................... 3(3,0)
   - PSC 1121* Physical Science PR: MAC 1105 or MGF 1106/3,0, .. 3(3,0)
   - PHY 2053C College Physics I: MAC 1105 and MAC 1114 4(3,3)
   - CHM 1020 Concepts in Chemistry ............................... 3(3,0)

   - GROUP 2 BSC 1005* Biological Principles ....................... 3(3,0)
   - BSC 1050* Biology and Environment ......................... 3(3,0)
   - GLY 1030 Geology & Its Applications ........................ 3(3,0)
   - GEO 1200* Physical Geography ................................ 3(3,0)
   - ANT 2511 The Human Species .................................... 3(3,0)
   - MCB 1310 Biotechnology and Genetics ......................... 3(3,0)

* A one credit laboratory is also available for this course.
1A grade of “C-” (1.75) or better is required in this course.
2A grade of “C-” (1.75) or better satisfies three hours of the Gordon Rule requirement.

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

Substitution of Courses: General Education Program and Other Requirements

The Student 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 Polaris at https://my.ucf.edu. Appeals of transfer credit decisions should be directed to Academic Services (MH 210). Substitution requests for college or major requirements are processed within those administrative offices.

Alternate Courses: General Education Program

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

GEP Requirements Acceptable Substitutions
MAC 1105 (College Algebra) MAC 1114, MAC 2233, MAC 2253,
MAC 2245, MAC 2311, MAC 2312, MAC 2313
ECO 2013 (Macroeconomics) Any higher level ECO course
which has ECO 2013 as a prerequisite ECO 2023 (Microeconomics)
PHY 2053C (Physics) PHY 2048, PHY 2049, PHY 2054C,
PHY 2014C, PHY 5015C
CHM 1020 (Chemistry) CHM 2045C, CHM 1032,
CHS 1440
BSC 1005 or BSC 1050 (Biology) BSC 2010C
GEO 1200 (Geography) GEO 2370
CGS 1060C (Intro to Computer) CGS 2100C, COP 2220,
COP 2500C, COP 3502C, COP 3100C
STA 2014C (Statistics) STA 2023, STA 3023
THE 2000 (Theatre) THE 2020
FIL 1001 (Cinema Survey) FIL 2400, FIL 3401, FIL 3402
MUL 2010 (Enjoyment of Music) MUN 2212

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
SYG 2000 General Sociology
ANT 2000 General Anthropology
POS 2041 American National Government
PSY 2012 General Psychology

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UNIVERSITY OF CENTRAL FLORIDA
2005-2006 Undergraduate Catalog
### Placement in Language Course

- Placement in foreign language courses is based on one year of high school foreign 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.

### 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

Students who have previously received a baccalaureate completion of the appropriate college-level course or by examination. Appropriate scores on Advanced Placement and CLEP examinations will also satisfy the requirement.

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.
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 periodically each semester. Students must register in advance with that office to take the examination (SRC 203).
4. The foreign language proficiency requirement does not apply to students seeking a second baccalaureate degree.
5. A student who is required and furnishes a passing TOEFL (Test of English as a Foreign Language) score for admission to the University is considered to have satisfied the requirements.

### 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 units in the same language) at the time they are admitted to the University must satisfy this requirement prior to graduation. This requirement applies to all undergraduates and is separate from the UCF Foreign Language proficiency requirement.

### The Gordon Rule

The “Gordon Rule” (State Rule 6A-10.30) applies to students who first enrolled in any college or university after October 1982. The rule requires students to complete 24,000 words of composition in four courses (12 semester hours) and to complete two courses (six semester hours) of mathematics at the level of college algebra or higher. Each course must be completed with a minimum grade of “C-” (1.75).

UCF courses that are required by the General Education Program also 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:

- Six hours of mathematics at the level of college algebra or higher
- 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.

Specific upper level courses also may be used to meet the Gordon Rule composition requirement. Each of the courses listed below fulfill 6,000 words of the composition portion of the requirement.
Undergraduate Degree Requirements

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

Course Title

DEGREE REQUIREMENTS

JOU 4306 Critical Writing
PUR 4800 Public Relations Campaigns
RTV 3501 Broadcast Copywriting
RTV 3300 Broadcast Newswriting
RTV 4402 Broadcast Criticism
THE 4072 Principles of Motion Picture Art

LAH 3400 History of Mexico and Central America
LAH 3200 Latin American History II
LAH 3130 Latin American History I
HSA 4502 Risk Management Systems
HIM 4676 Professional Development & Issues in HIM
HIS 4150 History and Historians
EUH 4621 War and International Politics in Europe
EUH 4574 History of Russia 1801-1917
EUH 4461 Rise of Modern Germany
EUH 4465 Hitler's Third Reich
EUH 4500 English Literature I
EUH 4501 English History: 1485-1815
EUH 4502 British History: 1815-Present
EUH 4530 British Empire and Commonwealth
EUH 4571 History of Russia to 1801
EUH 4574 History of Russia 1801-1917
EUH 4576 History of Russia in the 20th Century
EUH 4620 European Great Powers: 1815-1914
EUH 4621 War and International Politics in Europe
HIS 4150 History and Historians
HIM 4676 Professional Development & Issues in HIM
HSA 4502 Risk Management Systems
HUM 3431 Ancient Humanities
JOU 4300 Feature Writing
JOU 4306 Critical Writing
LAH 3130 Latin American History I
LAH 3200 Latin American History II
LAH 3400 History of Mexico and Central America
LAH 3740 History of the Caribbean
LIT 2110 World Literature I
LIT 2120 World Literature II
NUR 3165 Critical Inquiry
NUR 3809 Transitional Concepts in Nursing I
PAD 4034 Administration of Public Policy
PAD 4720 Survey Research in Public Admin
PHH 3100 Ancient Philosophy
PHI 2630 Ethics
PHI 3800 Aesthetics
PHI 3803 Philosophy and Creativity
PLA 3155 Legal Writing
PLA 4935 Capstone: Legal Issues
RTV 4403 Electronic Media, Technology and Society
SOW 3104 Assessing & Human Development
SOW 4232 Social Welfare Policies and Issues
SOW 4341 Micro-level Roles & Interventions in SW
SYP 3400 Social Change
TPA 4940 Technical Theatre/Design Internship
TPP 4940 Theatre Performance 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 course work. All students seeking an Associate of Arts or baccalaureate degree from a State of Florida Institution are required by the State to satisfy the CLAST requirement. There are several methods by which students may meet this requirement, but applicants for teacher certification may only satisfy the CLAST by earning passing scores on each subtest. Students who have completed 18 or more semester hours are eligible to take CLAST.

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

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

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

Academic advising offices can answer questions students may have.

CLAST Waiver Petitions for Students with Disabilities

Students with disabilities may request reasonable accommodations while taking the CLAST. Those who are unable to pass a sub-test of the CLAST due to a disability may request that a sub-test of the CLAST be waived. The student must be registered with the Student Disability Services Office (SRC 132) and have on file documentation of his or her disability. Contact Academic Support and Advising Services (SRC 132) or Academic Support and Advising Services (SRC 132) for information. The CLAST Petition Committee reviews all requests for waivers on a case by case basis. For disability registration information, contact Academic Support and Advising Services (SRC 132) or Academic Support and Advising Services (SRC 132) for information at 407-823-5130.

Summer Attendance Requirement

A student entering the State University System with fewer than 60 semester hours of credit is required to enroll in a minimum of nine hours of credit in the summer at a State of Florida university.

Courses taken at the University during the summer for which the student receives a "W" or "F" may be counted toward this requirement. Credit earned by acceleration mechanisms also applies toward satisfaction of the Summer Attendance Requirement. Petition forms for exemption are available from Academic Services (MH 210).
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.

Graduation Application Deadline

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

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

Grad On Track (GOT)

First Year Advisor: Stephen O’Connell; PH 116; 407-823-3789; 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.
REGULATIONS & PROCEDURES

ACADEMIC REGULATIONS AND PROCEDURES

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

Schedule Web Guide
The Schedule Web Guide is published online twice each year; the Summer/Fall edition and the Spring edition. The Schedule Web Guide provides the official “Academic Calendar” and describes the policies and procedures governing registration each term. The Schedule Web Guide is available on the Registrar’s Office web page at https://registrar.ucf.edu.

Terms and Credit Hours
The University of Central Florida academic schedule consists of two semesters (Fall and Spring), and the Summer term. The graduation credit value of each course of instruction is stated in terms of semesters. 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 Polaris 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 Polaris 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 “2003-2004 Tuition and Fees Schedule” in the “Financial Information” section of this Undergraduate Catalog. Audit registration is on a space-available basis at the prescribed time of Registration, or at any time during Late Registration and Add/Drop when Late Registration fees will apply. Audit requests for students who register prior to this time will be denied. Students may not change to audit status after Late Registration and Add/Drop, but must remain in the course or withdraw through normal withdrawal procedures. New students must be accepted for admission. Audit forms, available on the Registrar’s website and in the Registrar’s and college advising offices, must be signed by the instructor and presented to the Registrar’s Office at the time of registration.

Senior Citizen Audit
Senior Citizens (60 years of age or older) who have been residents of the State of Florida for at least one year as of the first day of classes, may enroll tuition free as audit students (i.e., no academic credit) on a space-available basis. Forms to be completed include the “Residency Affidavit,” the “Student Health History,” 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 website: http://registrar.ucf.edu. It is necessary to complete the required forms during the last hours of registration as noted in the “Academic Calendar” online at http://www.ucf.edu/info. 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. 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. For waiver eligibility and application information, see “Tuition Waivers” within the “Financial Information” chapter of this Undergraduate catalog.

State Tuition Exemption Program (STEP)
(State of Florida) Registration
State Tuition Exemption Program (STEP-State of Florida) 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. The STEP students must present a “Certification” letter to the Student Accounts Office (MH 107) to receive waiver of eligible fees. Registration before the time specified in the “Academic Calendar” online at http://www.ucf.edu/info will result in the student being assessed regular fees. The tuition fee waiver cannot be used for courses that require increased costs, including, but not limited to courses offered through the Center for Continuing Education, independent study, supervised research, supervised teaching labs, thesis hours, dissertation, internships, co-ops, practicums, or applied, individualized instruction in music, art, or dance. Eligible members of the active State of Florida National Guard may receive a waiver of 50% of tuition and material and supply fees.

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

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

UCF Students Attending a Non-SUS Institution

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

Enrollment and Degree Certifications

Students may obtain their enrollment verification online through Polaris at https://My.ucf.edu. Enrollment certification is free to currently enrolled students. Parents, employers, background checking firms, and other third party agencies may request enrollment and degree verifications online at www.degreechk.com. A fee will be assessed for all such requests. UCF has contracted with Credentials, Inc. to provide current enrollment, degree and past attendance verifications 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/info. A student may withdraw from courses using Polaris at https://My.ucf.edu/info, or by visiting the Registrar's Office (MH 161), certain college advising offices, or a Regional Campus records office. Students must submit a request to withdraw in person at the Registrar's Office by 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 also may send a written request to the Registrar's Office by mail (to P.O. Box 160114, Orlando, FL 32816-0114). A fee will be assessed for all such requests. 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 grade 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; 407-823-5652; Fax: 407-823-5662). A fee will be assessed for all such requests. The fee will be assessed for all such requests. 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 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

A student seeking a late withdrawal because of circumstances such as serious medical problems. Unsatisfactory academic performance is not an acceptable reason for withdrawal after the deadline. Students seeking to withdraw 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 withdraw 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. If a student withdraws, 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 grade 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; 407-823-5652; Fax: 407-823-5662). A fee will be assessed for all such requests. 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 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>Grades</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>*</td>
</tr>
</tbody>
</table>

* Available only in CHM 1032, CHM 2045, 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 2104.

Other Actions | Grade Points |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>I - Incomplete</td>
<td>-</td>
</tr>
</tbody>
</table>
**Academic Regulations and Procedures**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>No grade reported by instructor (followed by grade)</td>
</tr>
<tr>
<td>R</td>
<td>Repeated course (Grade Forgiveness)</td>
</tr>
<tr>
<td>S</td>
<td>Satisfactory (w/credit)/Satisfactory Progress (Research, Thesis, or Dissertation)</td>
</tr>
<tr>
<td>T</td>
<td>Subsequently repeated (no credit)</td>
</tr>
<tr>
<td>U</td>
<td>Unsatisfactory (no credit)</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawn</td>
</tr>
<tr>
<td>WF</td>
<td>Withdrawn Failing 0.00</td>
</tr>
<tr>
<td>WH</td>
<td>Health Form Withdrawal</td>
</tr>
<tr>
<td>WM</td>
<td>Medical Withdrawal</td>
</tr>
<tr>
<td>WP</td>
<td>Withdrawn Passing</td>
</tr>
<tr>
<td>X</td>
<td>Audit (no credit)</td>
</tr>
</tbody>
</table>

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

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

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

- Course #1: B+ 3 semester hours \times 3.25 grade points = 9.75
- Course #2: A- 3 semester hours \times 3.75 grade points = 11.25
- Course #3: A 4 semester hours \times 4.00 grade points = 16
- Course #4: B 3 semester hours \times 3.00 grade points = 9

= 13 semester hours \times 46 total grade points

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

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

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

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

**Incomplete Grade**

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

Unresolved incomplete grades automatically will be changed to “F” by the Registrar’s Office. Unresolved “I” grades in courses graded with “S” or “U” will be converted to “U.”

**Grade Change**

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

**Grade Reports**

Grades are available from Polaris at https://My.ucf.edu or from the UCF kiosks where a hard copy of grades per term may be printed via the “Print” browser function.

**Attendance, Absences, or Unsatisfactory Work**

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

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

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

**Classroom Responsibility**

Students are responsible for maintaining classroom decorum appropriate to the educational environment. When the conduct of a student group of students from acceptable standards of behavior becomes disruptive to normal classroom procedures, the instructor has the authority to remove the offending party from the room and refer the student to the Office of Student Conduct (SRC 155) for disciplinary action.

**Student Conduct**

Students are subject to federal and state laws and local ordinances as well as regulations prescribed by the University of Central Florida and the Florida Board of Governors. The breach or violation of any of these laws or regulations may result in disciplinary action. Detailed conduct regulations and procedures are presented in The Golden Rule. A person applying for admission to UCF who has declared a violation of conduct policies at a previous college or university or has been charged with a violation of the law (including traffic violations that resulted in a fine of $200 or more) may have circumstances of the case reviewed by the Office of Student Conduct (SRC 154) to consider eligibility for admission.

**Religious Observances**

It is the policy of the University of Central Florida to reasonably accommodate the religious observances, practices, and beliefs of individuals in regard to admissions, class attendance, and the scheduling of examinations and work assignments. A student who desires to observe a religious holy day of his or her religious faith will notify all of his/her instructors and be excused from classes to observe the religious holy day.
The student will be held responsible for any material covered during the excused absence, but will be permitted a reasonable amount of time to complete any work missed. Where practicable, major examinations, major assignments, and University ceremonies will not be scheduled on a major religious holy day.

Students who are absent from academic or social activities because of religious observances will not be penalized. A student who believes that he/she has been unreasonably denied an educational benefit due to his/her religious belief or practices may seek redress in accordance with Rule 6C7-5.0031, Student Grievance Procedure, as listed in *The Golden Rule*.

**Student Classifications**

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

- **Freshman:** 0-29 semester hours.
- **Sophomore:** 30-59 semester hours.
- **Junior:** 60-89 semester hours.
- **Senior:** 90 or more semester hours, prior to completion of baccalaureate requirements.

**Post-Baccalaureate:**

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

**Graduate:**

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

**Other Student Classifications:**

- **Auditor:** A student registered for any credit course who is not seeking credit.
- **Co-op Student:** A student enrolled in the Center for Cooperative Education and Applied Learning Program remains a registered student during all off-campus assignment semesters. Furthermore, there is no lapse in continuity in the co-op academic calendar: a co-op student either is on assignment or attending class during each term.
- **Special Student:** A student of demonstrated academic ability who does not meet the regular requirements for admission (Early Admission, non-degree-seeking, transient, and auditor)
- **Temporary:** A student who applied before the deadline and who is permitted to register and attend class pending completion of the admission file.
- **Transient:** Students temporarily registered (for one semester) at UCF with the approval of another university or college where they are regularly enrolled, or a UCF student temporarily in attendance at another university or college, with the approval of UCF. A UCF student may not be enrolled as a transient student in another institution during the term in which the baccalaureate degree or the A.A. degree is to be awarded.
- **Limited Non-Degree Seeking:** A student earning credit, but not working on a degree program.
- **Provisional:** A student entering from a regionally unaccredited high school, college, or university may be admitted on provisional status where appropriate. By obtaining a minimum 2.0 GPA (“C” average) at the end of the first term of attendance, the provisional status will be removed. Earning less than a “C” (2.0) average the first term would result in disqualification.

**Academic Honors**

**President’s Honor Roll Certificate (Full-Time Award)**

The President’s Honor Roll Certificate (Full-Time Award) is awarded in recognition of scholastic honors to degree-seeking undergraduate students who maintain a 4.0 GPA 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. Contact the Registrar’s Office (MH 161 or registrar@mail.ucf.edu) if all criteria are met and President’s Honor Roll Certificate was not awarded.

**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. Contact the Registrar’s Office (MH 161 or registrar@mail.ucf.edu) if all criteria are met and Dean’s List was not awarded.

**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. Achieve an overall grade point average that is in the upper 10 percent of the range established by all students graduating in the same college/school during the previous two years;
2. Achieve at least a 3.2 overall grade point average; and,
3. Honors awarded will be:
   - **Summa Cum Laude** for those students in the upper 2.5 percent;
   - **Magna Cum Laude** for those students in the upper five percent, but not in the upper 2.5 percent;
   - **Cum Laude** for those students in the upper ten percent, but not in the upper five percent.

**Grade Forgiveness**

Grade Forgiveness allows 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 will only be awarded if the original and repeated courses both are taken at UCF;
4. All grades will remain on the student’s official transcript. The original course grade will be marked with a “T” to indicate that the course subsequently has been repeated, or a note describing the initial attempt, and the repeat course grade will be marked with an “R.” The original grade always will appear on the transcript but only the repeated course grade will be calculated into the GPA;
5. If it is determined that the student is ineligible for the Grade Forgiveness policy, neither a refund of fees nor automatic withdrawal from the course will be made;
6. If a student applies for Grade Forgiveness and later withdraws, or receives an “I” grade or “NC” grade in the course, the attempt will count as one of the allotted Grade Forgiveness attempts, and the GPA will calculate both grades.
7. **UCF does not** honor Grade Forgiveness granted at other institutions unless it is part of an Associate in Arts or a specific statewide articulated Associate in Science degree transferred from a Florida Public Community College or State University. Grade forgiveness awarded within a bachelor’s degree from a Florida State System institution is not honored at UCF. UCF’s Grade Forgiveness policy may not be honored by other colleges, universities, professional schools, or national testing associations;
8. Due to the two-course limit, a student who has repeated two or fewer courses;
9. Satisfaction/unsatisfactory course work, and did not earn any “I,” “U,” “N,” “NC” or “WF” grades during a given term. Contact the Registrar’s Office (MH 161 or registrar@mail.ucf.edu) if all criteria are met and President’s Honor Roll Certificate was not awarded.
Academic Regulations and Procedures

more courses at a Florida Public Community College or State University and included those courses in the transfer of an AA or a specific statewide articulated AS degree will not be granted any Grade Forgiveness at UCF;

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

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

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

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

Academic Standing

All academic actions are shown on Polaris at https://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 are normally expected to complete the Florida AA degree before petitioning for readmission. A disqualified student must submit an application for readmission supported by a letter documenting the reasons for previous academic difficulties, clear evidence of satisfactory academic performance since leaving the university and plans for achieving a GPA of 2.0 or better. The total record will be reviewed and action on readmission will be taken by the University Registrar. Any Disqualified student whose UCF grade point deficiency is equal to or greater than 15 grade points is not eligible for readmission. For readmission purposes only, "grade point deficiency" is defined as the number of UCF credit hours earned with a "B" (3.0 GPA) grade that a student requires to raise his or her UCF grade point average to 2.0.

Exclusion (Second Suspension or more)

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

Good Standing

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

Earning Credit While Disqualified or Excluded

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

Readmission

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

Right of Appeal

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

1. Complete the "Application for Readmission as an Exception to University Policy Form," available at the Registrar's Office (MH 161);
2. Prepare a written statement specifying the extenuating circumstances that 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).
   b. Any additional supporting documentation (optional); and,
   c. Any supporting documentation as directed by the college, school or other University personnel;
   d. Any additional supporting documentation (optional); and,
3. Submit to the Registrar's Office official transcripts from all other schools attended during suspension (if applicable).
4. Order official transcripts from all schools attended during suspension (if applicable).
5. The Registrar's Office will forward this transcript to the Admissions and Standards Committee during the disqualification period and one appeal per 12-month period following the disqualification period.
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.

Limitations on the Number of Readmission Appeals

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

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

Non-Academic Admission Clearances

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

Appeal

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

e. SASS Degree Audit (obtained from Polaris at https://My.ucf.edu).

Excepting students who have not completed the required suspension period, the appellant will be afforded the opportunity to personally appear before the Committee before it renders a decision. Upon receipt of both the appeal and all required supporting documentation, the Admissions and Standards Committee will render a decision. This decision is final.

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 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 (12565 Research Parkway). The “Change of Name” form is available from the Registrar’s Office at MH 161 or online at http://registrar.ucf.edu.

Address and E-Mail Changes

The student’s address is obtained from the “Application for Admission or Readmission.” It is the students’ responsibility to make appropriate changes to the address as they occur. Address and e-mail changes can be made on Polaris (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 a check, money order, or credit card information (i.e., card type, card number, 3-digit Security Number, expiration date, and the name to which the card is registered.) Cash payments can be accepted only by the Cashier’s Office during that office’s regular business hours. The UCF Card payment option is available only at the main Orlando campus and must be made in person at the Registrar’s Office (MH 161). Mail written requests for transcripts to: Registrar’s Office, Attn: Transcripts, P. O. Box 160114, Orlando, FL 32816-0114. For fax request information and payment procedures, refer to http://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 Polaris at https://My.ucf.edu.

Third Attempt Course Repeat Surcharges

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

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

Extenuating Circumstances

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

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

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

Financial Hardship:

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

1) Qualification for federal need-based financial aid; or
2) Other documented financial hardship may be
Major, Minor, Undergraduate Certificate Changes

Majors

The University assigns the major that the student indicated on the "Application for Admission or Readmission." It is the student's responsibility to make appropriate major changes. Students who change majors between different colleges (including the Rosen 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 "History") category. 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 the University with "Undeclared" or "Undecided" category may retain their catalog when initially selecting a major. The "Undergraduate Major Change Form" is available at the college and school advising offices of from the Registrar's Office website at http://registrar.ucf.edu. Forms may be submitted in person to the college and school advising offices of from 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 must declare a minor before required courses may be taken. Minors are optional unless required by your specific major. All graduation requirements (i.e., the certificate and major/minor) 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 "Pending," certification will not be made at a later time even if additional courses have been completed. The "Undergraduate Minor Declaration/Change Form" is available at the college and school advising offices. Forms may be submitted in person to the college/school advising offices or by mail or in person to the Registrar's Office (MH 161). Requests must include the student's identification number and signature.

Undergraduate Certificates

An undergraduate Certificate is a supplement to the bachelor's degree program/major. Certificates are optional. Effective Summer 2005 students may receive an undergraduate Certificate by completing all requirements for an undergraduate Certificate program. Students must be admitted in a degree seeking program to be eligible to receive an undergraduate Certificate. Certificate programs may not be taken independently of a degree program. All graduation requirements (i.e., the certificate and major/minor) must be from the same UCF Undergraduate Catalog for which a student is eligible. Certificates may be certified at any time during the student's undergraduate career. Some certificates may restrict awarding the certificate to time of degree completion. The undergraduate Certificate is awarded upon completion of the certificate requirements as determined by college for each specific certificate. The undergraduate Certificate 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 student's amendment to the student's education records that the student believes are inaccurate or misleading. The student may ask the University to amend a record that he or she believes is inaccurate or misleading. The student should write the University official responsible for the record, clearly identify the part of the record to be changed, and specify why the current record is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

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

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

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

Directory Information

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

Directory information at UCF includes:

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

All other student information will be released in accordance with FERPA: in most cases this requires the student's prior written and signed consent. The University extends to students the opportunity to withhold any or all information, including "directory information." To do this, students must complete the "Directory Disclosure/Release Authorization" form available at the Registrar's Office (MH 161) or online at http://registrar.ucf.edu, requesting that this information be
### ADVANCED PLACEMENT EXAMS

<table>
<thead>
<tr>
<th>Exam</th>
<th>Score of 3</th>
<th>GEP Usage</th>
<th>Score of 4</th>
<th>Score of 5</th>
<th>GEP Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>ARH 1000</td>
<td>ARH 2050 and 2051</td>
<td>Same as 4</td>
<td>CUL &amp; HIS Found 2</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>BSC 1005/1005L</td>
<td>SCI Found 2</td>
<td>Same as 3</td>
<td>BSC 2010C and BSC 2011C</td>
<td></td>
</tr>
<tr>
<td>Calculus A</td>
<td>MAC 2311</td>
<td>MAT Found 1</td>
<td>Same as 3</td>
<td>MAT Found 1</td>
<td></td>
</tr>
<tr>
<td>Calculus B</td>
<td>MAC 2311</td>
<td>MAC 2311 and 2312</td>
<td>Same as 4</td>
<td>MAT Found 1</td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>CHM 1020 &amp; 1020L</td>
<td>SCI Found 1</td>
<td>CHM 2045C or CHM 2054C &amp; CHM 2045L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Science A</td>
<td>CGS 1075</td>
<td>MAT Found 2</td>
<td>Same as 3</td>
<td>MAT Found 2</td>
<td></td>
</tr>
<tr>
<td>Computer Science AB</td>
<td>CGS 1076</td>
<td>MAT Found 2</td>
<td>Same as 3</td>
<td>MAT Found 2</td>
<td></td>
</tr>
<tr>
<td>Economics: Macro</td>
<td>ECO 2023</td>
<td>SCI Found 1</td>
<td>Same as 3</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Economics: Micro</td>
<td>ECO 2023</td>
<td>SCI Found 1</td>
<td>Same as 3</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>English Language and Composition</td>
<td>ENC 1101</td>
<td>ENC 1101 and ENC 1102</td>
<td>Same as 4</td>
<td>COM Found 1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>English Literature and Composition</td>
<td>ENC 1101</td>
<td>ENC 1101 and ENC 1102</td>
<td>Same as 4</td>
<td>COM Found 1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>Environmental Science</td>
<td>ISC 1051</td>
<td>SCI Found 2</td>
<td>Same as 3</td>
<td>SCI Found 2</td>
<td></td>
</tr>
<tr>
<td>European History</td>
<td>EUH 1009</td>
<td>SCI Found 2</td>
<td>Same as 3</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Government and Politics: Comparative</td>
<td>CPO 1002</td>
<td>SCI Found 1</td>
<td>Same as 3</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Government and Politics: United States</td>
<td>POS 2041</td>
<td>SCI Found 1</td>
<td>SCI Found 2</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Human Geography</td>
<td>GEO 1400</td>
<td>SCI Found 1</td>
<td>Same as 3</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Music Theory</td>
<td>PHY 2053C</td>
<td>SCI Found 1</td>
<td>PHY 2053C and PHY 2054C</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Physics: Electricity / Magnetism</td>
<td>PHY 2045C</td>
<td>SCI Found 1</td>
<td>PHY 2045C</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Physics: Mechanics</td>
<td>PHY 2053C</td>
<td>SCI Found 1</td>
<td>PHY 2045C</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Psychology</td>
<td>PSY 2012</td>
<td>SCI Found 2</td>
<td>SCI Found 2</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Statistics</td>
<td>STA 2014</td>
<td>MAT Found 2</td>
<td>SCI Found 2</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Studio Art: Drawing Portfolio</td>
<td>No direct equivalent</td>
<td>SCI Found 2</td>
<td>SCI Found 2</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Studio Art: 2-D Design Portfolio</td>
<td>No direct equivalent</td>
<td>SCI Found 2</td>
<td>SCI Found 2</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Studio Art: 3-D Design Portfolio</td>
<td>No direct equivalent</td>
<td>SCI Found 2</td>
<td>SCI Found 2</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>United States History</td>
<td>AMH 1000</td>
<td>SCI Found 2</td>
<td>SCI Found 2</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>World History</td>
<td>WOH 2022</td>
<td>CUL &amp; HIS Found 1</td>
<td>SCI Found 2</td>
<td>SCI Found 1</td>
<td></td>
</tr>
</tbody>
</table>
Academic Regulations and Procedures

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.html.

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

Advanced Placement Program (AP) (see table on previous page)
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) of introductory literature. A score of 5 earns a minimum of two semesters (min. 6 credits) of introductory literature. A score of 4 or 5 earns a minimum of one semester (min. 3 credits) of introductory literature. A score of 5 earns a minimum of two semesters (min. 6 credits) of introductory literature.

Advanced Placement Literature (all modern languages)
A score of 3 earns a minimum of one semester (min. 3 credits) of

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>AP Course</th>
<th>Logic Core Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting, Principles of</td>
<td>ACG 1001</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Algebra, College</td>
<td>MAC 1105</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Algebra-Trigonometry, College</td>
<td>MAC 1147</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>American Government</td>
<td>POS 2041</td>
<td>SOC Found 1</td>
</tr>
<tr>
<td>American Literature</td>
<td>AML 1000</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
<tr>
<td>Biology, General</td>
<td>BSC 1005</td>
<td>SCI Found 2</td>
</tr>
<tr>
<td>Business Law, Introduction to</td>
<td>BUS 1241</td>
<td></td>
</tr>
<tr>
<td>Calculus with Elementary Functions</td>
<td>MAC 2233</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Chemistry, General</td>
<td>CHM 1020</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Educational Psychology, Introduction to</td>
<td>EDH 1002</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>English Composition with Essay</td>
<td>ENC 1101</td>
<td>COM Found 1</td>
</tr>
<tr>
<td>English Literature</td>
<td>ENL 1000</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
<tr>
<td>History of the United States I: Early Colonizations to 1877</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>History of the United States II: 1805 to Present</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Human Growth and Development</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Information Systems and Computer Applications</td>
<td>CDS 1077</td>
<td>MAT Found 2</td>
</tr>
<tr>
<td>Macroeconomics, Principles of Management, Principles of</td>
<td>-</td>
<td>ECO 2013</td>
</tr>
<tr>
<td>Marketing, Principles of</td>
<td>MAR 2011</td>
<td>ECO 2013</td>
</tr>
<tr>
<td>Mathematics, College</td>
<td>MGF 1107</td>
<td>ECO 2013</td>
</tr>
<tr>
<td>Microeconomics, Principles of Psychology, Introductory</td>
<td>-</td>
<td>PSY 1003</td>
</tr>
<tr>
<td>Sociology, Introductory</td>
<td>SYG 2000</td>
<td>SOC Found 2</td>
</tr>
<tr>
<td>Trigonometry</td>
<td>MAC 1114</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Western Civilization I: Ancient Near East to 1648</td>
<td>-</td>
<td>ECH 1000</td>
</tr>
<tr>
<td>Western Civilization II: 1648 to Present</td>
<td>-</td>
<td>ECH 1000</td>
</tr>
</tbody>
</table>
### CAMBRIDGE AICE EXAMS

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

### DANTES SUBJECT STANDARDIZED TESTS (DSST)

<table>
<thead>
<tr>
<th>Exam Credit</th>
<th>Course Number (3 credits per exam)</th>
<th>GEP Usage</th>
<th>Passing Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Math</td>
<td>QMB 1001</td>
<td>GEP usage</td>
<td>C</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>CCJ 1000</td>
<td>GEP usage</td>
<td>C</td>
</tr>
<tr>
<td>Environment and Humanity</td>
<td>EVR 1017</td>
<td>GEP usage</td>
<td>C</td>
</tr>
<tr>
<td>Foundations of Education</td>
<td>EDF 1000</td>
<td>GEP usage</td>
<td>C</td>
</tr>
<tr>
<td>Fundamentals of Counseling</td>
<td>PCO 1202</td>
<td>GEP usage</td>
<td>B</td>
</tr>
<tr>
<td>Here’s to Your Health</td>
<td>HSC 1100</td>
<td>GEP usage</td>
<td>C</td>
</tr>
<tr>
<td>Human Resources Management</td>
<td>MAN 1000</td>
<td>GEP usage</td>
<td>C</td>
</tr>
<tr>
<td>Human/Cultural Geography</td>
<td>GEO 1400</td>
<td>GEP usage</td>
<td>C</td>
</tr>
<tr>
<td>Introduction to Business</td>
<td>GEB 1011</td>
<td>GEP usage</td>
<td>C</td>
</tr>
<tr>
<td>Introduction to Law Enforcement</td>
<td>CCJ 1000</td>
<td>GEP usage</td>
<td>C</td>
</tr>
<tr>
<td>Lifespan Developmental Psychology</td>
<td>DEP 2004</td>
<td>GEP usage</td>
<td>B</td>
</tr>
<tr>
<td>Money and Banking</td>
<td>BAN 1501</td>
<td>GEP usage</td>
<td>C</td>
</tr>
<tr>
<td>Physical Geology</td>
<td>GLY 1000</td>
<td>SCI Found 2</td>
<td>GEP usage</td>
</tr>
<tr>
<td>Principles of Financial Accounting</td>
<td>ACG 1001</td>
<td>SCI Found 2</td>
<td>GEP usage</td>
</tr>
<tr>
<td>Principles of Physical Science I</td>
<td>PSC 1121</td>
<td>SCI Found 2</td>
<td>GEP usage</td>
</tr>
<tr>
<td>Principles of Statistics</td>
<td>STA 1014</td>
<td>MAT Found 2</td>
<td>GEP usage</td>
</tr>
</tbody>
</table>
guages other than English)
No direct equivalent. Content of Language A1 varies widely.
Minimum 3 credits in literature for score of 4 (Diploma holders only),
6 credits for score of 5-7 (all exams for diploma holders, higher level
exams only for others).

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

College Level Examination Program (CLEP)
(see table on page 59)
Credit is awarded for scaled scores of 50 or higher on computer-
based CLEP exams taken after July 1, 2001. A score at or above the second CLEP threshold
semester (3 credits) of Elementary Language I or equivalent level (gener-
ally numbered 1120). No literature credit should be awarded for CLEP foreign language exams.

Credit by Examination
Regularly enrolled (excludes transient and non-degree) undergradu-
ate students at the University of Central Florida may obtain credit for
specific University courses through departmental examinations. A
student who believes he or she has acquired the knowledge and/or
skills of a specific University course should consult his or her advisor
and the chair of the department in which the course is offered to
arrange for an examination. Degree credit will be awarded for those
courses successfully completed by departmental examination. Credit
by examination may not be used to reduce the 30 semester hours
residency requirement. Credit by examination will not be given for
any course lower in content than courses in the same discipline in
which students are currently enrolled or which they have already
completed or failed. Permission to take an examination is approved
by the chair of the department and the dean of the college in which
the course is offered.

Cambridge AICE Exams
(see table on page 60)
The Advanced International Certificate of Education (AICE) program
is an international, advanced secondary curriculum and assessment
program equivalent to the British system of "A-Levels." Information
about the program, including course syllabi, can be found online at
http://www.cie.org.uk/q_and_s/gce_a/index.html.

DANTES Examination Credit
(see table on page 60)
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:

Excelsior College Examinations
(see table below)
The table labeled “Excelsior College Examinations” provides informa-
tion 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.

EXCELSIOR COLLEGE EXAMINATIONS TABLE

<table>
<thead>
<tr>
<th>Exam Title</th>
<th>Course Number</th>
<th>GEP Usage</th>
<th>Passing grade for credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abnormal Psychology</td>
<td>CLP 1140</td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>English Composition</td>
<td>ENC 1101 for C</td>
<td>COM Found 1</td>
<td>C</td>
</tr>
<tr>
<td>English Composition</td>
<td>ENC 1101/1102 for B</td>
<td>COM Found 1</td>
<td>B</td>
</tr>
<tr>
<td>Ethics: Theory and Practice</td>
<td>PHI 1830</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>Foundations of Gerontology</td>
<td>GEY 1000</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>Human Resources Management</td>
<td>MAN 1300</td>
<td></td>
<td>C</td>
</tr>
<tr>
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<td>Psychology of Adulthood and Aging</td>
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International Studies and Programs

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

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

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

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

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

Study Abroad Programs

There are numerous benefits from studying abroad. It enhances thinking skills and motivation to learn, and increases confidence, maturity and empathy for others. In addition, study abroad programs are naturally positioned to promote awareness of cultural differences. UCF study abroad opportunities are a cooperative venture of academic departments and the Office of International Studies (OIS), and are designed to provide an exceptionial 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 include the Department of Foreign Languages intensive programs in French (Paris, France), German (Muenster, Germany) Italian (Bergamo, Italy) and Spanish (Madrid, Spain); Social Work Department programs in South Africa and Russia; Criminal Justice in Barbados, Nursing in Sweden, 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 Juniors or Seniors who have a minimum 3.0 GPA. Examples of current exchanges are located in Australia, Griffith University; China, Qingdao University; France, Universities of Angers and Paul Sabatier; Germany, University of Koblenz, Ilmenau Technical University; Japan, Meikai University; Jordan, Princess Sumaya University, College for Technology; Peru, University of Lima; Sweden, universities of Lund, Jonkoping, Mallardalen, and Dalarna; United Kingdom, University College Northampton.

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 other 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 provide program advice and general information about options. You can find information at 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 (CS/EL). 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 partnerships 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 for these opportunities students may 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

The Division of Continuing Education (DCE) serves as the unit within Academic Affairs for the centralized administration of continuing edu-
cation 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 #1, 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 courses through 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 #1; P.O. Box 160950, Orlando, FL 32816-0950; 407-882-0260; Fax: 407-882-0244

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

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**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 offices on both campuses. The complementary 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 Fizam; 407-823-6202

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

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

- Conference services;
- Customized corporate programs;
- Executive MBA Program;
- Public enrollment programs;
- International seminars and exchange programs;
- Trade missions for the development of potential economic and academic partners.

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: fcli@mail.ucf.edu

The Florida Canada Linkage Institute was created by the Florida Legislature to assist in the development of stronger economic and social ties between Florida and Canada. Linkage is developed through promotion of expanded public/private dialogue on cooperative research and technical assistance, cultural exchange, enhancement of language training, and student/faculty exchange programs. Linkage also promotes cultural and trade ties between Florida and Canada. 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 programs 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: eeli@mail.ucf.edu

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

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Special Academic Programs and Research Institutes
The John Scott Dailey Florida Institute of Government at the University of Central Florida

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

The Institute of Government, an affiliate of the 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)

Ken Sheinkopf, 1679 Clearlake Road, Cocoa FL 32922-5703; 321-638-1007; Fax: 321-638-1010.

The Florida Solar Energy Center is the largest and most active state-supported alternative energy research institute in the United States. Its facilities are located on the Cocoa campus of UCF at Brevard Community College. FSEC has gained national and international respect for its programs on photovoltaics, hydrogen from renewables, pollutant detoxification, photocatalytic processes, energy-efficient buildings, advanced cooling technologies, and solar thermal systems. It operates the only certified solar equipment testing program in the country. The yearly value of FSEC’s external contracts exceeds its state support by a factor of two. The Center conducts seminars and workshops for technicians and professionals state-wide, 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: fsiscas@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: 407-658-5039; 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 developments. 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 Seminole counties’ joint fire rescue facility on the campus’ north boundary.

IST actively assists UCF in the development of simulation-related curricula. First in the nation with a master’s degree in simulation systems, the University in collaboration with IST now offers a truly multi-disciplinary 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). 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

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.

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 by responding to the needs of the small business community. The SBDC, as part of the College of Business Administration at the University of Central Florida, is responsible for a geographic area including Orange, Osceola, Lake, Volusia, Flagler, and Sumter counties. Regional centers located at Daytona Beach Community College, Brevard Community College, and Seminole Community College assist small business in those areas. Assistance is provided through workshops and individual counseling in the following areas:

- Personnel
- Marketing
- Bookkeeping
- Sources of Financing
- Business Tax
- Product Innovation
- Franchising
- Business Plan Development

Additional programs provide assistance to clients in the areas of government contracting, 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.
Associate of Arts Degree

University of Central Florida students who satisfactorily complete 60 semester hours of acceptable college work may apply for an Associate of Arts degree. University requirements include achievement of a minimum UCF GPA of 2.0, fulfillment of the General Education Program requirements, and completion of the last 20 semester hours in residence at UCF. In addition, any student who desires to receive an A.A. degree must have satisfied the Gordon Rule requirement and passed the College Level Academic Skills Test.

The Associate of Arts degree is awarded only upon application. The application form may be obtained in Academic Services, MH 210 and completed by the end of the first week in the term in which the Associate of Arts degree is to be awarded. A student may not be enrolled as a transient student in another institution during the term in which the Associate of Arts degree is to be awarded. An Associate of Arts degree will not be awarded in the same term that the baccalaureate degree is to be awarded or in any term following the completion of the baccalaureate degree.

Baccalaureate Degrees

The University offers the degrees of Bachelor of Arts, Bachelor of Engineering Technology, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Science in Business Administration, Bachelor of Science in Education, Bachelor of Science in Engineering, Bachelor of Science in Nursing, and Bachelor of Science in Social Sciences. These degrees are available in the following Colleges with majors or areas of specialization as indicated:

Burnett College of Biomedical Sciences
Bachelor of Science (B.S.)
Majors: Molecular Biology and Microbiology Medical Laboratory Sciences

College of Arts and Sciences
Bachelor of Arts (B.A.)
Majors: Advertising/Public Relations, Anthropology, Art, Digital Media, English, Film, Foreign Languages Combination, French, History, Humanities, Interpersonal Communication, Journalism, Liberal Studies, Music, Organizational Communication, Philosophy, Political Science, Psychology, Radio-Television, Sociology, Spanish, Theatre

Bachelor of Fine Arts (B.F.A.)
Majors: Art, Film, Theatre

Bachelor of Music Performance (B.M.)

Bachelor of Music Education (B.M.E.)

Bachelor of Science (B.S.)
Majors: Actuarial Science, Biology, Chemistry, Digital Media, Forensic Science, Liberal Studies, Mathematics, Photography, Physics, Psychology, Social Sciences (interdisciplinary), Statistics

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

Bachelor of Arts
Major: Economics

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

College of Engineering and Computer Science
Bachelor of Science

College of Health and Public Affairs
Bachelor of Arts (B.A.)
Majors: Communicative Disorders, Criminal Justice, Legal Studies, Public Administration

Bachelor of Science (B.S.)
Majors: Cardiopulmonary Sciences, Communicative Disorders, Criminal Justice, Health Information Management, Health Sciences-Athletic Training, Health Sciences-Generalist 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

Rosen College of Hospitality Management
Bachelor of Science (B.S.)
Majors: Hospitality Management, Restaurant and Foodservice Management
Academic Minors

College Awarding Minor* Name of Minor

Burnett College of Biomedical Sciences Molecular Biology and Sciences

College of Arts and Sciences African American Studies, American Studies, Cognitive Sciences, Digital Media Judaic Studies, Latin American Studies, Middle Eastern Studies, North American Indian Studies, Social Sciences-Interdisciplinary

College of Business Administration 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)

College of Education Coaching, Early Childhood Education, Exceptional Education, Fitness Training, Technical Education and Industry Training

College of Engineering and Computer Science Aerospace Studies, Military Science, Space Studies, Technology and Society Information Technology, Computer Science

College of Health and Public Affairs Aging Studies, American Humanics, Communicative Disorders, Criminal Justice, Emergency Management, Health Sciences, Health Services Administration, Health Information Management, Legal Studies, Public Administration, Urban and Regional Planning

Rosen College of Hospitality Management Hospitality Management

School/Department Awarding Minor* Name of Minor

Multidisciplinary Department of Aerospace Studies

Department of Art

Department of Biology

Department of Chemistry

Nicholson School of Communication

Department of English

Department of Film

Department of History

Department of Mathematics

Department of Military Science

Department of Music

Department of Modern Languages and Literatures

Department of Philosophy

Department of Physics

Department of Political Science

Department of Psychology

Department of Sociology and Anthropology

Department of Statistics

Department of Theatre

*Contact the college/school/department for the requirements for each 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/.
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 professions (chiropractic, medical, dental, optometric, podiatric, pharmacy, and veterinary medicine).

**Degrees:** Molecular Biology and Microbiology (BS, MS)

**Tracks:** None

**Minors:** Molecular Biology and Microbiology

**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 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) 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

**Biomolecular Science Center**
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 diseases.

The center will work 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 will establish at least 20 new faculty research teams in biomolecular science within the theme area of the center. Additional faculty will be hired in partnership with other academic units including the and . Together with the existing faculty, this growth in life sciences will 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 will be a major vehicle for training. In addition the center intends to help establish other degree programs in cooperation with other academic units to generate a skilled workforce that can serve the region and state’s growing biomedical technology industry.
The College of Arts and Sciences, the largest academic unit in the University, includes the following departments: Art; Biology; Chemistry; English; Foreign Languages and Literatures; History; Liberal Studies; Mathematics; Music; Philosophy; Physics; Political Science; Psychology; Sociology and Anthropology; Statistics; and Theatre. The College also houses the School of Film and Digital Media, which includes the Film program as well as Digital Media. The Nicholson School of Communication is also within the college, and includes the following divisions: Advertising/Public Relations, Interpersonal/Organizational Communication, Journalism, and Radio/Television.

In keeping with the aims of the University of Central Florida, the College is responsible for all programs in the broad areas of the humanities, arts, natural sciences, and social sciences. The departments collectively offer more than sixty baccalaureate, graduate, and pre-professional 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 Sciences offers a wide selection of courses that are designed to complement the programs of the other colleges of the University. These offerings include most of the courses necessary to satisfy the University's general education requirement.

A student enrolled in the College as an undergraduate must fulfill all University degree requirements including those for general education, as well as the particular requirements set forth within each area of specialization. Computer proficiency is determined within the student's department of major. Depending on the program, evaluation may be via a written test, relevant projects, specific exercises within a course, or an entire course dealing with computers. To be certified for graduation, a student must achieve at least a "C" GPA (2.0) in the courses of his or her major and/or minor. Some departments also require a minimum grade in each major course. Students are advised to consult their departmental advisor for specific policies. 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: Roger Handberg; CNH 414; 407-823-2608

There is no preferred major for pre-law. Law schools accept superior students with a good liberal arts background, regardless of major field. A Bachelor of Arts or Bachelor of Science degree with approximately three-fourths of the course work representing theory content is typically suggested. Majors such as English, History, Legal
Faculty at the centers are drawn from the nine state universities. 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 admission to Undergraduate Inter-institutional Transient programs. The Office of International Programs may be elected as minors by students majoring in any discipline within the university. For more information about the programs and contact addresses, refer to the Biological Preprofessional section for additional information.

**Advisement**

Office of Academic Support and Information Services (OASIS)

Contact: Lee Anne Kirkpatrick; CNH 202; 407-823-2492; e-mail: oasis@ucf.edu

The Office of Academic Support and Information Services (OASIS) is the primary office for undergraduate academic assistance in the College of Arts and Sciences. OASIS assists students in the College with degree requirements, policies and procedures. The Office oversees General Education course evaluation and substitutions as well as evaluation and application of TSD credits for Arts and Sciences students.

Questions concerning University and College academic policies affecting Arts and Sciences majors should be directed to the OASIS staff in CNH 202 or by calling 407-823-2492. Questions concerning the requirements within a major should be directed to the Department offering the degree. The student should contact the department early in his/her academic career.

**Program Planning**

Although suggested curricula are available in most areas, students will plan their program in consultation with a faculty advisor appointed by either the major department or the College.

**Area Studies Programs**

Area Studies programs are multi-disciplinary programs that focus on specific regions or cultural groups. UCF has four area studies programs with an international focus: Asian, Judaic, Latin American, and Middle Eastern. Although the academic home of these programs is the College of Arts and Sciences, faculty and students from across the entire university may participate in them. These programs may be elected as minors by students majoring in any discipline within the university. For more information about the programs and contact numbers of the program directors see the list below. Contact the Office of International Programs for assistance or referral for all international inquiries regarding academic programs.

- **Asian Studies** - Contact: Hong Zhang, CNH 531, 407-823-3184
- **Judaic Studies** - Contact: Moshe Pelli, 407-823-5039
- **Latin American Studies** - Contact: Arlen Chase, 407-823-2124
- **Middle Eastern Studies** - Contact: Elliot Vittes; 407-823-2745

**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.
College of Arts and Sciences

Departments and Programs

African-American Studies: Program
http://www.cas.ucf.edu/africanamericanstudies
Director: Dr. JoAnne Stephenson; CNH 201G; 407-823-0026
Email: aas@ucf.edu

The College of Arts and Sciences offers a minor in African-American Studies, which gives students the opportunity to explore the African American experience from an interdisciplinary perspective. The program, which is designed to enhance and complement the student’s major area of study, provides an overview of the main currents in African American arts, history, and culture. Courses in Caribbean Studies are also available to students. Each summer the Caribbean Study Abroad Program offers students the opportunity to study and explore cultures and societies of the Caribbean.

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

American Studies: Program
Contact: Liberal Studies Advising Team CNH 201; 407-823-0144

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

Degrees: None
Tracks: None
Minors: American Studies

Anthropology
(See Sociology and Anthropology)

Art: Department
http://reach.ucf.edu/~art
E-mail: art@ucf.edu
Chair: TBA; 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 Altrusa Club of Winter Park.

Degrees: Art (BA, BFA)
Tracks: Animation, Art History, Studio Art
Minors: Art History, Studio Art

Asian Studies: Program
Director: Hong Zhang, CNH 531; 407-823-3184

An interdisciplinary minor designed to enhance multicultural education by offering students both an overview of Asian civilization and a detailed study of its most significant features. The focus of the program is on India, China, and Japan. Course work will include upper-level classes from the curricula of participating programs (anthropology, art history, economics, foreign languages, history, humanities, philosophy, political science).

Degrees: None
Tracks: None
Minors: Asian Studies

Biology: Department
http://pegasus.cc.ucf.edu/~biology/
E-mail: biology@ucf.edu
Chair: David Kuhn; BL 210; 407-823-2141
Faculty: David Kuhn; BL 210; 407-823-2141

Faculty: Celestani, Fauth, Jenkins, Kuhn, Morrison-Shelter, Nadeau, Noss, Osborne, Parkinson, Quintana-Ascencio, Sheltar, Snelson, Sotero, Stout, Sweet, Thomas, Vajravelu, von Kalm, Walters, Waterman, Weishampel, Worthy, Professors Emeritus Ellis and Koevenig

The Department of Biology offers a Bachelor of Science in Biology, a minor in Biology, the Master of Science in Biology, a graduate certificate in Conservation Biology, and a cooperative Ph.D. in Biomolecular Sciences. The core curriculum provides a background in the chemical, mathematical, and physical sciences, as well as broad preparation in the biological sciences. This diverse background opens career opportunities for graduates in areas outside of their particular degree program. Graduates are well prepared to further their education in professional or graduate schools. Selection of electives, in consultation with a faculty advisor, permits emphasis of a subspecialty. Careful selection of restricted and unrestricted electives allows students to satisfy requirements for admission to professional or graduate school while completing their B.S. degree in Biology. Research experience and exposure to specialized topics not taught through formal courses may be gained through independent study contracts.

Degrees: Biology (BS, MS, PhD)
Tracks: Biology Pre-professional (BS)
Minors: Biology

Department of Chemistry
http://www.cas.ucf.edu/chemistry
E-mail: chemistry@ucf.edu
Chair: TBA; CH 117; 407-823-2246
Faculty: Ballantyne (Forensic Science), Belfield, Clausen, Elsheimer, Fookes (Forensic Science), Geiger, Hampton, Juge, Kujawa (Geology), Madsen, McGee (Forensic Science), Miles, Paradis, Phanstiel, Slaterbeck

The Department of Chemistry offers courses and programs leading to a Bachelor of Science in Chemistry, a Bachelor of Science in Forensic Science, a minor in Chemistry, and a Master of Science in Industrial Chemistry. The undergraduate degree program in chemistry is accredited by the American Chemical Society Committee on Professional Training. It prepares the graduate for career opportunities in the chemical or related industries, or in government laboratories. The program also prepares students for further study at the graduate level in chemistry or in a related area such as pharmacology or toxicology. With an appropriate choice of electives it also constitutes excellent preparation for the professional schools of dentistry, medicine, and veterinary medicine.

Degrees: Chemistry (BS, MS), Forensic Science (BS)
Tracks: Chemistry, Forensic Analysis, Forensic Biochemistry
Minors: Chemistry

Communication: Nicholson School
http://www.cas.ucf.edu/communication
E-mail: communication@ucf.edu
Director: M.A. Shaver; COM 238; 407-823-2681
Faculty: Bagley, Barfield, Betz, Bledsoe, Bridges, Brokaw, J. Butler, Costain, Davis, DeLorme, Fedler, Hall, Hodgson, Katt, F. Johnson, Lawrence, Malala, Maunez-Cuadra, Meeske, Mills, Moroux, O’Hara, Pryor, Rabby, Santana, R. Smith, Stansberry, Taylor, Workman, Wycoff, Young

The Nicholson School of Communication provides students with a balance of practical skills and philosophical aspects of mass and interpersonal communication. The programs prepare students to understand mass media as social institutions and trains them for professional careers. The School is composed of four Divisions which offer five separate Bachelor of Arts degrees. The degrees are:

1. Advertising/Public Relations. Provides theory and practice in both advertising and public relations.
2. Interpersonal Communication. Provides knowledge, theory, and skills needed to understand and predict human communicative behavior.
3. Journalism. Provides theory and skills needed to gain employment in newspapers, magazines, and similar forms of mass communication.
4. Organizational Communication. Provides knowledge, skills, and theory to understand and predict human communicative behavior in organizational settings.

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 writing rooms and both a traditional wet photography lab and a digital darkroom. The Advertising/Public Relations Division has a computerized graphics lab and a writing classroom. The Interpersonal/Organizational Communication Division has a presentational speaking classroom equipped for audio/video record/playback and computerized visual presentation. The Division also has a small group laboratory equipped with audio/video record/playback.

**Degrees:** Advertising/Public Relations (BA), Interpersonal Communication (BA), Journalism (BA), Organizational Communication (BA), Radio/Television (BA)

**Tracks:** Broadcast Journalism, Broadcast Production, General Broadcasting

**Minors:** Interpersonal Communication, Magazine Journalism, Mass Communication, Organizational Communication

**Community Arts—PAVE: Program**

**Director:** TBA; 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](http://www.english.ucf.edu)

**E-mail:** english@ucf.edu

**Interim Chair:** Jose Fernandez; CNH 301; 407-823-2212

**Faculty:** Angley, Applen, Barnes, Bartkevicius, Bell, Bowdon, Bowie, Brain, Brodkin, Campbell, Carpenter, Casmier-Paz, Cato, Davidson, Dombrowski, Flamia, Fox, Gairieda, Gormad, Hemschmeyer, Hepner, Hohenleitner, Hubbard, A. Jones, D. Jones, Kamrath, Kesler, Kilatlon, Lamazares, Leiby, Lillios, Logan, Marinara, Mauer, Meehan, Morton, Murphy, Oliver, Owens, Pugh, Rodriguez-Milanes, Roney, Rushin, Saper, Schell, Scott, Seidel, Smith, Spraker, Stap, Telep, Thaxton, Troup, Wallace, Young.

**Professor Emeritus:** Adicks, Omans, Schaffner

The Department of English is responsible for the effective teaching of language and literature in English, including World Literature, and creative, expository, and technical writing. Students may concentrate in creative writing, technical writing, or literature. The Department serves the broad needs of the University with course offerings in writing and literature for students from other departments. The department has a Technical Documentation Writing Lab and also publishes The Florida Review, The Cypress Dome, and The Faulkner Journal. An Honors in English program provides an enriched course of study for exceptional students, leading to graduation with honors. Program description follows concentration degree plans.

**Degrees:** English (BA, MA, Ph.D)

**Tracks:** Literature, Creative Writing, Technical Writing

**Minors:** Creative Writing, Literature, Linguistics, Technical Writing and Editing, Writing

**School of Film and Digital Media**

**Director:** Terry Frederick

**Digital Media: Program**

[http://www.creat.ucf.edu](http://www.creat.ucf.edu)

**E-mail:** creat@cas.ucf.edu

**Director:** J. Michael Mosholder; VAB 205; 407-823-6100

The Digital Media program is offered by the Consortium for Research and Education in the Arts and Technology (CREAT) and is housed in the College of Arts and Sciences. Contributing academic units include the Departments of Art, English, Film, Music, Theatre, and the School of Electrical Engineering and Computer Science.

**Degrees:** Digital Media (BA, BS)

**Tracks:** Graphic Design, Computer Animation, Computing for Media, Writing for Media, Digital Music, Internet and Interactive Systems

**Minors:** Minor, Certificate

**Film: Program**


**E-mail:** film@ucf.edu

**Division Head:** Phil Peters; COM 121; 407-823-3456

**Faculty:** Blum, Congdon, Cook, Fluegel, Gerstein, Harpole, Harris, Ingle, Johnson, Jones, Rodhie, Sandler, Schlow, Stocki, Underberg, Yearwood

Offering a four-year undergraduate curriculum, the Film Department focuses on developing a student's creative voice, and stresses entrepreneurial filmmaking and the use of new technology in the production and distribution of their work. Encompassing all aspects of filmmaking from conceptualization to distribution, the department prepares students to become effective independent filmmakers. Graduating seniors are required to complete a capstone film, script, or digital media project. Concentrations include: filmmaking, screenwriting, digital cinema, and cinema studies. Community partners include: Universal Studios Florida, Disney-MGM Studios, and the Florida Film Festival.

Students are selected for the “limited access” program by submitting an application form and creative portfolio by 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)

**Forensic Science: Program**

[http://www.cas.ucf.edu/chemistry/forensic.html](http://www.cas.ucf.edu/chemistry/forensic.html)

**E-mail:** chemistry@ucf.edu

**Director:** W. W. McGee; CH 221; 407-823-2788

**Faculty:** Ballantyne, Fookes, McGee

Forensic Science is the profession serving the scientific needs of the justice system. The program at UCF has been designed to prepare the student with an educational background in criminalistics. The principal job of the forensic scientist is to examine physical evidence gathered at the scene of a suspect criminal action. The criminalist may work on physical evidence such as blood, hairs, fibers, or pharmacetical and clandestine drug preparations. Upon completion of a thorough laboratory examination of the evidence, the forensic scientist presents his/her findings in court. The goal of the Forensic Science program is to prepare the student for this demanding profession. Within the Forensic Science program, the student may choose one of two programs of study. The two areas of emphasis are the Analysis Track and the Biochemistry Track.

**Degrees:** Forensic Science (BS)

**Tracks:** Forensic Analysis, Forensic Biochemistry

**Minors:** none

**History: Department**

[http://pegasus.cc.ucf.edu/~history](http://pegasus.cc.ucf.edu/~history)

**E-mail:** history@ucf.edu

**Chair:** Edmund Kalina; CNH 505-Z; 407-823-5450

**Faculty:** C. Adams, S. Adams, Alvarelz, Beiler, Cassanello, Clark, Crepeau, Downing, Farless, Fernandez, Friend, Gordon, Greenhow, Herlihy, Kalina, Lecie, Mendoza, Pauley, Perry, Solanari, Stockdale, Walker, Walters, 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, Canadian and Commonwealth Studies, Latin-American and Iberian Area Studies, and Russian Area Studies.

**Degrees:** History (BA, MA, Accelerated MA)

**Tracks:** None

**Minors:** History
Judaic Studies: Program
http://www.cas.ucf.edu/judaic_studies
E-mail: judaicst@ucf.edu
Program Director: Professor Moshe Pelli; CNH 201, 407-823-5039 or 823-5129

The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The program offers instruction, conducts research, and disseminates knowledge in the civilization of the Jewish people from Biblical times to the present day in the major dimensions of its creativity: literature, language, religion, philosophy, law, and social, political and economic organization. Because the roots of western culture and civilization and major world religions lie in ancient Jewish thought and practice as manifested in the Hebrew Bible and subsequent writings, Judaic Studies form an essential component of the university’s curricula.

The program enables students to acquire a foundation of knowledge of Jewish history, the Hebrew language, Jewish philosophy, culture, religious beliefs, and political aspirations; and to understand the contribution of Judaism to western civilization. The courses highlight major aspects of Jewish civilization, focusing on its interaction with other cultures and on the bodies of human knowledge upon which it draws.

The program is designed to serve students pursuing careers in general or Jewish education, in international and Middle-Eastern affairs, in languages or liberal arts, in the ministry or rabbinate, and in the community at large.

Degrees: None
Tracks: None
Minors: Judaic Studies

Latin American Area Studies: Program
E-mail: achase@mail.ucf.edu
Director: Arlen Chase; PH 403M; 407-823-2124

The Latin American Area Studies Minor is an interdisciplinary academic program whose objective is to provide students with an understanding of Latin American cultural, social, intellectual and political-economic dynamics. The minor provides students with a background that can be applied to careers in teaching, government, business, non-profit organizations, as well as international, inter-American Affairs.

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

Liberal Studies: Program
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Director: Elliot Vittes
Program Contact: The Liberal Studies Advising Team
Academic Advisors: Karen Cox, Katrin DeWindt, Lee Logan, Linda Skrotsky; CNH 20, Judy Monroe (MNH 321); 407-823-0144.

The Liberal Studies Program offers students the opportunity to pursue interdisciplinary studies through individually planned programs of study that include sixteen different areas plus minor degree programs. The degree includes six different tracks: Liberal Studies, Computer Information Technology, Environmental Studies, Photography and Women’s Studies.

Degrees: Liberal Studies (BA, BS, MA, MS) Program (A.S. to B.S.)
Tracks: Liberal Studies, Liberal Arts, Environmental Studies, Women’s Studies, Computer Information Technology
Minors: American Studies, Environmental Studies, Social Sciences Interdisciplinary

Mathematics: Department
http://math.ucf.edu
E-mail: math@mail.ucf.edu
Chair: Zuhair Nashed; MAP 209; 407-823-0445

Faculty: Andrews, Anthony, Armstrong, Brigham, Cannon, Caron, Choudhury, Clarke, Danielian, Dunlop-Pyle, Dutton, Griffiths, Han, Heinzer, Higgins, Hoffman, Jones, Kassab, Katsevich, Langfield, Li, Martin, Mikusinski, Mohapatra, Pensky, Phillips, Pyle, Rautenstrauch, Ren, Richardson, Rodriguez, Rollins, Salzmann, Schober, Shivamoggi, Taylor, Tobvis, Vajravelu, Young, Zhao

The Department of Mathematics offers courses and programs which lead to a Bachelor of Science in Mathematics, a minor in Mathematics, a Master of Science in Mathematical Science and a Ph.D. in Mathematics. (See the Graduate Studies catalog for a description of the M.S. in Mathematical Science and the Ph.D. in Mathematics.) The programs in mathematics are designed to serve:

1. students who desire to pursue careers in mathematics after having completed a baccalaureate degree;
2. students who desire to continue their education in graduate and professional schools; and
3. students who need to use advanced mathematics as a tool in their specialty areas.

In order to serve such a wide variety of students, the courses and programs in the Department of Mathematics have developed along several lines. There are the usual service courses in pre-calculus and calculus along with strong programs in the upper division in the traditional areas of algebra and analysis and applied mathematics.

The department does not award credit by examination for courses which are regularly taught. Students who feel they know the material in a given course are encouraged to take a more advanced class to fulfill their mathematics requirement. A limited number of student assistantships are available for qualified graduate students.

Degrees: Mathematics (BS, MS, PhD)
Tracks: Applied Mathematics, Computational Mathematics, Engineering/Physics, Mathematics, Pure Mathematics
Minors: Mathematics

Music: Department
http://www.cas.ucf.edu/music/
E-mail: music@ucf.edu
Interim Chair: K. Koons; CNH 205; 407-823-2866, Fax 407-823-3378
Part-Time Faculty: Berger, Chen, Fox, Garrity, Gerher, Hawkins, Hill, Krueger, Leung, Liao, Pitfrod, Robertson, Swedberg, Titus, Schultz, Ward, Wei

The Department of Music offers a Bachelor of Music degree with options in performance, composition, and piano pedagogy; a Bachelor of Arts Degree in music; and a Bachelor of Music Education Degree with specializations in instrumental, choral and elementary school music. The Music Education programs are approved by the Florida State Department of Education. Students who desire to be certified to teach in elementary and secondary schools should major in Music Education. Courses leading to teacher certification are offered cooperatively with the College of Education. Master of Arts and a Master of Education degrees in Music Education are offered by the College of Education. The Music Department is fully accredited by the National Association of Schools of Music. Music organizations on campus include Pi Kappa Lambda, Phi Mu Alpha, Sigma Alpha Iota, Tau Beta Sigma, Kappa Kappa Psi, University Vocal Society, Gospel Choir, MIDI User Group, Student Chapters of MENC and ACDA, and Student Advisory Council.

Degrees: Music (BA), Music Education (BME), Music Performance (BM)
Tracks: Music Performance, Composition
Minors: Music

Modern Languages and Literatures: Department
http://pegasus.cc.ucf.edu/~forlang
E-mail: foreignlanguages@ucf.edu
Chair: TBA; CNH 523; 407-823-2472

Faculty: Barberet, Barsch, Cervone, Decker, Del-Rio, DiPierro, Fabery, Fernández, Ferro, Folse, Giannandrea, Gilreath, López, Martínez, Mason, Nalbone, Prucha, Redmon, Rivera, Stebbins, Taylor, Villaneuva, McCarron (Professor Emeritus)

Language studies in the College of Arts and Sciences provide instruction in Arabic, Chinese, French, German, Italian, Japanese, Latin, Portuguese, Russian, and Spanish, with majors in French, Spanish, and a combination of two languages. The language combinations may consist of French, German, or Spanish as a first language, and any of these three, plus Italian, as a second language. These programs are designed to meet the needs of students who desire competency in a language and expanded understanding of a
foreign culture and literature. Students enrolled in the 1000-level language sequence are required to utilize the Foreign Language Media Center for at least one hour per week. Students desiring to major in a foreign language must meet all the requirements for graduation as set forth by the University, the College of Arts and Sciences, and by the Department of Foreign Languages and Literatures.

Degrees: French (BA), Spanish (BA, MA), Foreign Language Combination (BA), ESOL (MA)
Tracks: None
Minors: French, German, Italian, Spanish

Philosophy: Department
http://www.cas.ucf.edu/philosophy
E-mail: philosophy@ucf.edu
Chair: Shaun Gallagher; CNH 411; 407-823-2273
Faculty: Cash, Compton, Congden, Coverston, DiBernardo, Evans, Hawkins, Jaeger, Janz, Jones, Kassim, Mundale, Park, Schippert, Stanlick, Strawser, VanHook

The Department of Philosophy offers a Philosophy major and a Humanities major, with tracks in multicultural Humanities and in Religious Studies, as well as minors in Philosophy, Humanities, Religious Studies, and 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 (including electives) of either the Philosophy major or the Humanities major, a grade of "C" or better must have been received.

Degrees: Philosophy (BA), Humanities (BA), Humanities-Religious Studies (BA)
Tracks: Regular and Honors
Minors: Philosophy, Humanities, Religious Studies, Cognitive Sciences

Physics: Department
http://www.physics.ucf.edu
E-mail: physics@ucf.edu
Interim Chair: Ralph Llewellyn; MAP 310; 407-823-2325
Associate Chair: Lee Chow; MAP 315; 407-823-2333
Faculty: Bhattacharya, Bolemon, Bose, Braunstein, Britt, Busch, Campins, Chernyak, Chow, Ettmioi, Heinreich, Johnson, Kokouline, Llewellyn, Luo, Mucciolo, Neighbor, Peale, Roldan-Cuenya, Saha, Saul, Schelling, Schulte, Tonner, Winningham, Woodney
Faculty Emeritus: Brennan
Visiting Faculty: Dubey, Filtisyian, Stefanov

The Department of Physics offers a multi-track program of study leading to the B.S. degree, giving students the flexibility to choose a suitable set of courses to prepare for their career goals. A common core of courses in theoretical and experimental physics will lead to a broad understanding of the general principles of physics. The different tracks allow students to specialize, applying problem-solving techniques in a certain area of interest; this also enhances their qualifications for employment in that area after graduation.

After graduation our students are prepared to enter advanced study in physics, engineering, medicine, environmental sciences, astronomy, and other related disciplines. They are also prepared to begin careers in positions are varied as engineering physics, computational physics, and physics education. Undergraduate physics majors benefit from small class sizes, and are encouraged to be involved in individually designed senior projects working with a faculty advisor.

The Department's research programs include optics and lasers, condensed matter physics, complex systems, biophysics, atomic and molecular physics, nanosciences, and space science. The Department of Physics also offers a Master of Science degree and a Doctor of Philosophy degree.

Degrees: Physics (BS, MS, PhD)
Tracks: General Physics, Materials Physics, Optics and Lasers, Computational Physics, Astronomy
Minors: Astronomy, Physics

Political Science: Department
http://pegasus.cc.ucf.edu/~politics
E-mail: politics@ucf.edu
Chair: R. Handberg; CNH 415; 407-823-2608

The Department of Political Science seeks to:
1. Provide students with a broad background for careers in foreign and domestic public service and in the private sector where a knowledge of government and politics is necessary.
2. Provide students with a broad background in pre-law to facilitate their admission to law school.
3. Prepare students for teaching, research, and graduate study in Political Science.
4. Provide a broad background for careers in politics;
5. Educate citizens and promote their active interest in public affairs. Students should plan their major or minor in consultation with their departmental advisor according to their interests and career objectives.

Political Science courses are divided into three areas of specialization: American Politics and Policy; International Relations and Comparative Politics; and Political Theory. It is strongly recommended that majors planning to continue their education at the graduate level or to pursue a career in international fields acquire a working knowledge of a foreign language. The Department of Political Science participates in the following programs:

- Asian Studies: Contact Houman Sadri.
- Canadian and Commonwealth Studies: Contact M. Elliot Vittes.
- Environmental Studies: Contact Dwight Kiel.
- Latin American and Iberian Studies: Contact Waltraud Q. Morales or Bruce Wilson.
- Russian Area Studies: Contact Houman A. Sadri.
- Space Studies: Contact Roger Handberg
- Women's Studies: Contact Terri S. Fine or Joyce Lille.

Degrees: Political Science (BA, MA), Economics (BA)
Tracks: American Politics, International Relations, Comparative Politics, Prelaw
Minors: Political Science, Political Science/Prelaw

Psychology: Department
http://pegasus.cc.ucf.edu/~psych
E-mail: psychology@ucf.edu
Chair: TBA; PH 302B; 407-823-2216
Associate Chair: W. Wooten, PH 305E; 407-823-2216

Psychology is one of the empirical sciences in the College of Arts and Sciences. The Undergraduate Program in the Department of Psychology reflects the scientific nature of the field and has two primary missions. The first is to provide students with a rigorous preparation for graduate training in psychology and related fields. The second mission is to provide all students with skills they will need to apply the basic concepts and methods of psychology in their work, their communities, and their lives. The Department of Psychology grants both BA and BS degrees. While either the BA or BS degree provides excellent preparation for graduate programs, students desiring a strong background in statistics and science should consider the BS option. The BS option has more science and math-related requirements as well as additional courses in psychology research and statistical methods.

Degrees: Psychology (BA, BS, MA, MS, PhD)
Tracks: None
Minors: Psychology, Behavioral Forensics Certificate

Social Sciences: Program
Contact Program: Liberal Studies Advising Team; CNH 201; 407-823-0144

The Social Sciences program offers students an opportunity to become acquainted with the various fields of the Social Sciences and to better understand the relationships between those fields. Satisfactory completion of the program leads to the Bachelor of Science degree with a major in Social Sciences.

Degrees: Social Sciences (BS)
Tracks: None
Minors: Social Sciences-Interdisciplinary
The Department of Sociology and Anthropology offers a Bachelor of Arts in Sociology and in Anthropology. Students should consult with their departmental advisor early in their academic careers to select an area of specialization within the Department or if they plan to pursue graduate work.

**Degrees:**
- Sociology (BA, MA)

**Tracks:**
- Domestic Violence (MA)

**Minors:**
- Anthropology, Sociology in Multicultural Studies, Sociology

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**Statistics and Actuarial Science: Department**

Http://www.cas.ucf.edu/statistics

**Chair:** I. Ahmad, CClI 212; 407-823-2289

**Faculty:** Cutchins, Gad, Guo, Hoffman, Jamshidian, Johnson, Nickerson, Pensky, Ren, Richardson, J. Schott, S. Schott, Su, Suchora, M. Wang, You, Zhang

The Department of Statistics and Actuarial Science offers courses and programs leading to a Bachelor of Science in Statistics, a Bachelor of Science in Actuarial Science, a minor in Statistics, and a Master of Science in Statistical Computing. (See the Graduate Studies catalog for a description of the M.S. in Statistical Computing.)

The undergraduate programs in statistics and actuarial science are designed to serve 1) students who desire to pursue careers in statistics or actuarial science after completing a baccalaureate degree; 2) students who desire to continue their education in graduate or professional schools; and 3) students who use statistics or actuarial science as tools in their specialty areas.

In order to serve such a wide variety of students, the courses and programs in the Department of Statistics and Actuarial Science have been developed along several lines. There are the usual service courses in elementary statistics along with strong programs in the upper division in statistical methods, statistical theory, statistical computing, and actuarial science. A limited number of assistantships are available for qualified graduate and undergraduate students.

**Degrees:**
- Statistics (BS, MS), Actuarial Science (BS, MS)

**Minors:**
- Statistics

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**Women’s Studies: Program**

Http://www.cas.ucf.edu/womensstudies

**E-mail:** womenst@ucf.edu

**Director:** L. M. Logan; CNH 201H; 407-823-6502

The Women’s Studies program offers an interdisciplinary minor and a certificate in Women’s Studies, in cooperation with several departments. The program examines women’s situation and contributions in past and present societies, women’s issues, and theories concerning women and gender.

**Degrees:**
- BA (Liberal Studies)

**Tracks:**
- Women’s Studies Track in Liberal Studies

**Minors:**
- Women’s Studies, Certificate

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**Theatre: Department**

Http://theatre.ucf.edu

**E-mail:** theatre@ucf.edu

**Chair:** TBA; UTC 111; 407-823-2862.

**Faculty:** Bell, Blades, Boyd, Brotherton, Brown, Chicheure, D’Crocce, Flannery, Harris, Hart, Helsinger, Huaxiang, Ingram, Lartonox, Listengarten, Major, Maxwell, McDonald, Ness, Owens, Ruscella, Rusnock, Scott, Seay, Shafer, Siegfried, H. Smith (Professor Emeritus), T. Smith, Stribling, Vernon, Weaver, Woods

The Department of Theatre seeks to develop theatre artists of the highest quality by providing a select number of students with the training, education, and experiences necessary for the successful pursuit of professional careers in theatre arts. In support of this mission and the liberal arts goals of the College of Arts and Sciences, the department seeks to provide its students with the knowledge and skills necessary to live full, rewarding and productive lives. Offering both undergraduate Bachelor of Arts and the Bachelor of Fine Arts degrees, as well as graduate Masters of Arts and Master of Fine Arts degrees, the Department of Theatre undertakes to develop and graduate theatre artists who are sensitive, aware, and total human beings. Through its public performance programs, the department endeavors to serve as a cultural resource for the University, the community and the central Florida region. Striving to provide its students with a competitive edge, the department employs a faculty and staff of artists/teachers who work intensely with students in the classroom and in production. To supplement this education and training, professional guest artists are brought to the campus to work in production and in the classroom. Before graduation, BFA students are required to complete a professional theatre internship thus providing them with a unique and invaluable introduction to the real world of professional theatre. In all its endeavors, the Department of Theatre strives to create and maintain a professional environment necessary for the continued growth and development of its students, faculty, and staff.

**Degrees:**
- Theatre (BA, BFA, MA, MFA)

**Tracks:**
- Performance, Design/Tech, Stage Management, Musical Theatre

**Minors:**
- Theatre

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**College of Arts and Sciences**

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**Sociology and Anthropology: Department**

Http://www.cas.ucf.edu/soc_anthro/firstpage.html

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

**Chair:** J. Corzine; PH 403B; 407-823-2227

**Associate Chair:** D. Gay

**Faculty:** A. Chase, D. Chase, Cook, Corzine, Dees, Dietz, Dupras, Ford, Gay, Goldstein, Howard, Huff-Corzine, D. Jones, Jasinski, Keeton, Lieberman, Lynxwiler, Marshall, Morris, Mustaine, Sikorska-Simmons, Stearman, Wallace, Wright, Wright II, Zorn

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**Statistics and Actuarial Science: Department**

Http://www.cas.ucf.edu/statistics

**E-mail:** statistics@ucf.edu

**Chair:** I. Ahmad, CClI 212; 407-823-2289

**Faculty:** Cutchins, Gad, Guo, Hoffman, Jamshidian, Johnson, Nickerson, Pensky, Ren, Richardson, J. Schott, S. Schott, Su, Suchora, M. Wang, You, Zhang

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**Women’s Studies: Program**

Http://www.cas.ucf.edu/womensstudies

**E-mail:** womenst@ucf.edu

**Director:** L. M. Logan; CNH 201H; 407-823-6502

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**Theatre: Department**

Http://theatre.ucf.edu

**E-mail:** theatre@ucf.edu

**Chair:** TBA; UTC 111; 407-823-2862.

**Faculty:** Bell, Blades, Boyd, Brotherton, Brown, Chicheure, D’Crocce, Flannery, Harris, Hart, Helsinger, Huaxiang, Ingram, Lartonox, Listengarten, Major, Maxwell, McDonald, Ness, Owens, Ruscella, Rusnock, Scott, Seay, Shafer, Siegfried, H. Smith (Professor Emeritus), T. Smith, Stribling, Vernon, Weaver, Woods

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**Women’s Studies: Program**

Http://www.cas.ucf.edu/womensstudies

**E-mail:** womenst@ucf.edu

**Director:** L. M. Logan; CNH 201H; 407-823-6502

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**Theatre: Department**

Http://theatre.ucf.edu

**E-mail:** theatre@ucf.edu

**Chair:** TBA; UTC 111; 407-823-2862.

**Faculty:** Bell, Blades, Boyd, Brotherton, Brown, Chicheure, D’Crocce, Flannery, Harris, Hart, Helsinger, Huaxiang, Ingram, Lartonox, Listengarten, Major, Maxwell, McDonald, Ness, Owens, Ruscella, Rusnock, Scott, Seay, Shafer, Siegfried, H. Smith (Professor Emeritus), T. Smith, Stribling, Vernon, Weaver, Woods

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**Degrees:**
- Theatre (BA, BFA, MA, MFA)

**Tracks:**
- Performance, Design/Tech, Stage Management, Musical Theatre

**Minors:**
- Theatre
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.

Qualified students who transfer to UCF with an AA Degree with Honors from a Florida community college that has signed an Honors Articulation Agreement with TBHC will be admitted into University Honors with junior standing. Further information is available from the
Honors Office of Student Services.

Students may receive 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.

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 Major</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 absence is permitted. A field trip is included as part of the Honors Symposium. Attendance at this series will be mandatory for all students seeking University Honors. The course is graded on a Satisfactory/Unsatisfactory basis.

3. These upper-division requirements for the completion of University Honors are under review and revision by the professional colleges.

The current requirements are as follows:

- **University Honors Upper-Division Program Requirements:**

  **College of Arts and Sciences, College of Education, Rosen College of Hospitality Management, Engineering Technology and Information Technology majors**

  1. Complete one Honors Interdisciplinary Seminar 4 (3 hrs)
  2. Complete two Honors upper-division courses, Seminars, or Interdisciplinary Seminars 4

- **University Honors Upper-Division Program Requirements:**

  **College of Business Administration**

  1. Complete one Honors Interdisciplinary Seminar 4 (3 hrs)
  2. Complete two Honors upper-division Business courses (6 hrs)

- **University Honors Upper-Division Program Requirements:**

  **Molecular Biology and Microbiology majors**

  1. Complete one Honors Interdisciplinary Seminar 4 (3 hrs)
  2. Complete two Honors upper-division courses, Seminars, or Interdisciplinary Seminars 4

- **University Honors Upper-Division Program Requirements:**

  **Other majors are available using the 4 + 4 option**

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 4 outside the student's department of major (although it may be within the College of Engineering and Computer Science) (3 hrs)
  2. Complete two Honors upper-division Engineering courses (6 hrs)

- **University Honors Upper-Division Program Requirements:**

  **Molecular Biology and Microbiology**

- **Library Studies**

- **Other majors are available using the 4 + 4 option**

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 Burnett Honors College

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 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 Undergraduate Research 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 or BSC 3404H (for Molecular & Microbiology students only). Students who enroll in the Interdisciplinary Course or in BSC 3404H will write a Thesis Proposal as part of their coursework. Departments or colleges may set additional requirements for Honors in the Major to be completed. The Honors Thesis is to be completed under the direction of a committee of three faculty members, one of whom is the project or thesis Chair. It is the student’s responsibility to obtain an Honors in the Major Committee Chair who will undertake the responsibility of directing the Honors Directed Readings and Thesis and, in consultation with the student, form the Honors in the Major faculty committee. The Thesis Committee Chair and at least two committee members must 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 Undergraduate Research 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 Undergraduate Research 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 him@mail.ucf.edu

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 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 Undergraduate Research 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 Business Administration
Dean: Thomas L. Keon, BA 230; 407-823-2181
Associate Dean: Bradley M. Braun, BA 230L; 407-823-5094
Associate Dean: E. Taylor Ellis, BA 2 101-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.

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 with a 2.0 GPA.
- Common Program Prerequisites with a 2.0 GPA.
- 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 BE2010 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 Transfers Notes

1. Admission requirements can and do vary among the business and accounting programs at the ten universities comprising the State University System. To ensure that they have met all prerequisite course eligibility requirements, transfer students from Florida’s community and junior colleges should complete the following courses as part of their Associate of Arts degree: ACG 2021 (or ACG 2001 and ACG 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; BA 201; 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

Title | Degree
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Accounting | BSBA, MSA, MST
Business Administration | MBA, Ph.D.
Economics | BSBA, MAEE, BA
Finance | BSBA
General Business | BSBA, MBA
Management Information Systems | BSBA, MS
Management | BSBA, MS HR
Marketing | BSBA

Departments and Programs

Kenneth G. Dixon School of Accounting

Director: A. Judd; BA 437; 407-823-2871
Assistant to Director: M. Hampton; BA 438; 407-823-5678
Faculty: Bandy, Bobek, Dwyer, Evans, Goldwater, Johnson, Judd, Kelliker, Knotworth, Lacy, Mahoney, Roberts, Roush, Savage, Smith, Vaughn, 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 prepare students to have a 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 SchooSchool of Accounting also offers master’s degrees in accounting and taxation.
These programs complete the education required to become a CPA. A rigorous and comprehensive accounting curriculum at UCF focuses on the real-world challenges of accounting, emphasizing problem solving, information analysis and computer applications.

**Distinctive Benefits**
- Strong industry ties allowing for unique opportunities for placement and advancement.
- A competitive internship program that places graduate students in positions with major employers in the community.
- The opportunity to enroll in outstanding graduate programs in accounting and taxation.
- A very strong faculty known for their teaching excellence.
- Over a dozen scholarships available to advanced students.
- Active student organizations including the Student Accounting Society and Beta Alpha Psi.
- A faculty committed to the continuous improvement of the accounting and taxation programs.
- Outstanding pass rates on the CPA exam.

**Degrees:** Accounting (BSBA, MSA, MST)

**Minors:** Accounting

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### Department of Economics

**Chair:** D. Hosni, BA 205-D; 407-823-3266, economics@bus.ucf.edu

**Faculty:**
- Anton, Buhagiar, Caputo, Dickie, Elston, Euzent, Finnoff, Gerking, Gibbs, Hamilton, Harrison, Hofler, Hosni, Im, Martin, McHone, Mikhail, Milton, Moore, Pennington, Potter, Rungeling, Rutstrom, Scrogin, Soskin, Trammell, Underwood, White

**Faculty Advisor:** R. Pennington; BA 203-B; 407-823-2640

Economic issues dominate today’s news and public debates more than ever before. Inflation, unemployment, health care, economic growth, pollution, poverty, and international economic relations are a few of these issues. The primary strength of economics is that it provides a logical, ordered way of looking at most problems and issues. Undergraduate education in economics equips individuals to both better understand and seek solutions to these issues.

The Department of Economics participates in two undergraduate degree programs: a BSBA degree and a BA degree. The purpose of the BSBA Economics Program is to provide students with a professional business background that prepares them for careers in private business and government. The purpose of the economics BA Program is to provide a broad-based liberal arts background that can serve as a strong foundation for further graduate studies in law, social sciences, and other fields or as training for careers in politics, teaching, research, social service, and other areas. Both programs enable students to better understand the economic and non-economic issues that are confronted in their jobs and their private lives and to provide the analytical skills that will allow them to resolve them.

**Distinctive Benefits**
- Flexible Curriculum: Students tailor the program to their individual interests through a large selection of economics electives.
- International Perspective: Exposure to the global economy through the International economics electives (10), including Area Studies (Europe, Japan, China, Pacific Rim, and Mexico).
- Interdisciplinary Linkages: Economics links with many other disciplines allowing for double majoring in Finance, General Business, and Political Science.
- Teaching quality: Many of the Economics faculty have received Excellence in Teaching Awards.
- Offer the opportunity for strong quantitative and analytical training.
- Student Organizations: The Economics Club is an active student organization linking students to Alumni.
- Excellent preparation for law school admission.

**Degrees:** Economics (BSBA, BA, MAAE)

**Minors:** Economics

### Department of Finance

**Chair:** A. Byrd; BA 409; 407-823-3575

**Faculty:**
- Ajayi, Atkinson, Block, Borde, Byrd, Chen, Cheney, Choi, Dalrymple, Frye, Gilkeson, Gregg, McKiellen, Modani, Park, Ragazzino, Ramanlal, Scott, Schnitzlein, Singer, Smith, Weaver, Whyte

The program in finance is designed to provide the student with broad knowledge in finance, including business finance, investments, financial institutions, international finance, risk management and insurance, and real estate. The program provides the student with the theoretical background and tools of analysis required for making effective financial decisions. The study of finance prepares the student for careers in business financial management.

**Distinctive Benefits**
- Students prepare for career opportunities in business and corporate financial management, commercial banking, real estate, investment management and counseling, investment banking, mortgage banking, multinational business, insurance and government.
- Students who major in finance are sought by both financial and non-financial firms.
- The rapidly changing domestic and international economies need individuals who have the skills to make sound financial decisions.

**Degrees:** Finance (BSBA)

**Minors:** International Business, Real Estate, Finance

### General Business

**Faculty Advisor:** B. Moore; BA 466; 407-823-5256

This option allows students to develop a general program of study which will satisfy career objectives not provided for by the specialized areas of concentration. To pursue this option, students should seek advisement in the Department of Economics. An academic advisor will be assigned to assist each student in developing a meaningful program of study.

**Degrees:** General Business (BSBA, MBA, Ph.D)

**Minors:** Non-Business majors

### Department of Management

**Chair:** F. Jones; BA 335; 407-823-2679

**Faculty:**
- Ambrose, Arnaud, Barringer, Becker, Bogumil,Butcher, Callahan, Callarman, Connell, Fernald, C. Ford, R. Ford, Holland, Huseman, Keon, Mijenes, McDonald, D. Neubam, 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 organisations, the department offers specialized training via the Entrepreneurship Track.

**Distinctive Benefits**
- Excellent faculty, known for their creativity and enthusiasm in the classroom, and their commitment to students in and out of the classroom.
- A broad-based training that will open up opportunities in high-growth career areas.
- Internships that provide real-world experience and enhanced job opportunities.
- A “hands-on,” applied focus in our courses.
The Marketing major at UCF is called
Ganesh, Gundy, Gupta, Harris, Howatt, Jordan, Kim, Maryott,
Faculty
Chair
Department of Marketing

MIS involves the study of how organizations use information and
information technology to overcome problems or create opportuni-
ties. The MIS major prepares students to become problem solvers in
a time when information is advertised as the “fourth factor of produc-
tion,” 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 infor-
mation system design and construction. The MIS curriculum includes
coverage of computer programming, database design and implementa-
tion, networks and data communications, systems analysis, sys-
tems 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 ground-
ning 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 organizations. 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 communica-
tion skills refined so that they are better able to communicate effec-
tively as they discover the nature of the organizational problem (or
opportunity), as they present their solutions, and as they manage the
system implementation.

Successful MIS graduates have a variety of career options open to
them, which lead to competitive salaries and travel opportunities.
While many graduates join internal MIS staffs or consulting firms,
there is a wide array of choices available to them. Graduates can
choose between large and small companies, emerging or stable
industries, and from among a multitude of career paths.

Distinctive Benefits

- Challenging field of study that rewards inquisitive students who
  are willing to work toward a goal.
- Student internship opportunities throughout the Central Florida
  region.
- An active student organization (MISA).
- Excellent job opportunities and starting salary prospects.
- Ability for graduates to apply and integrate all of the functional
  areas of business early in their professional careers.

Degrees: Management Information Systems (BSBA)
Master of Science, Management
Information Systems (MS/MIS)

Minor: Management Information Systems

Department of Marketing
Chair: R. Michaels; BAZ 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, Rubini, Sooder, Stock, Whang, Yoon

The Marketing major at UCF is called Impact Marketing 2010, or
simply IM2010. It provides a superior foundation in the foundation
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, advertis-
ing, e-business, research, sales, sports marketing, healthcare, enter-
tainment marketing or services. Internships are also readily avail-
able, and count as a marketing elective. Skills emphasized and
developed throughout the curriculum are teamwork, communication,
creativity, quantitative analysis, computing, problem solving, deci-
sion-making, thinking globally, and driving change.

A great benefit for Marketing majors is the opportunity to earn a cer-
tificate in any of seven areas of career interest: Selling and Sales
Management, Retailing Management, E-Marketing, Sports Marketing
Management, Healthcare Marketing, Entertainment Marketing and
Services Marketing. Students can design a personalized certificate
program combining elective courses with an internship that will
enhance their value to potential employers.

The department offers an 18-hour minor in Marketing. This course of
study provides a strong basic education in Marketing for business
students with majors other than Marketing or students with majors
from other colleges. Earning a minor in Marketing can add significant
value and career flexibility for any student with any major.

Marketing is vitally important to all organizations and individuals,
from global corporations to small businesses, from CEOs to the pro-
prieters of small retail stores, from global manufacturing operations
to 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, mar-
keting research, sports marketing, distribution and logistics, purchas-
ing, 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 organiza-
tions, 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 manage-
  ment careers.
- Approximately 15 scholarships awarded annually on a competi-
  tive basis.
- Opportunities to participate in honors in the major, internships,
  independent projects, and directed studies.
- Opportunities to participate in national award-winning student
  chapters of the American Marketing Association and The Society
  for Marketing Professional Services (SMPS).

Degrees: Marketing (BSBA)
Tracks: Generalist, Sales
Minor: Marketing

Certificates: Selling and Sales Management, Retailing
Management, e-Marketing, Sports Marketing
Management, Healthcare Marketing, Services
Marketing, Entertainment 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.
College of Education
Dean: Sandra L. Robinson; 407-823-5529
Associate Dean: Jennifer C. Platt; 407-823-2046
Assistant Dean: TBA
Assistant Dean: Suzanne M. Martin; 407-823-3906
Deans’ Office: ED 308
http://edcollege.ucf.edu/

The role of the College of Education at the undergraduate level is to prepare students for careers as early childhood, elementary, secondary, exceptional, physical, technical education teachers, and sports and fitness professionals. The College of Education offers Bachelor of Science degrees with the following majors:

Art Education
Early Childhood Education
Elementary Education
English Language Arts Education
Exceptional Student Education
Foreign Language Education
Mathematics Education
Physical Education
Science Education
Social Science Education
Sports and Fitness
Technical Education and Industry Training

Admission to the College of Education
Admission to the College will be granted when students meet the following requirements:

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the 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 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 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 com-
Office of Student Affairs
Located in the Education Complex in Suite 110, the Office of Student Affairs is dedicated to facilitating the success of students seeking 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.

Office of Clinical Experiences
Director: Carolyn Walker Hopp; ED 110, 407-823-2436
Clinical experiences provide students with a broad range of instructional experiences in various school settings developed through collaborative 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 follows:
March 1 for Fall semester
September 15 for Spring semester

Admission to Internship I
Admission to Internship I will be granted when students who have been admitted to the College of Education meet the following additional requirements:
- Have on file in the University admissions office passing scores on all 4 parts of the College Level Academic Skills Test (CLAST) and/or Florida Teacher Certification Examination General Knowledge Test (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 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 College Level Academic Skills Test (CLAST) and/or Florida Teacher Certification Examination General Knowledge Test (no alternatives or waivers are accepted)
- Possess a minimum overall GPA of 2.5
- Possess minimum professional preparation GPA of 2.5
- Possess minimum specialization GPA of 2.5
- Achieve a “C-” (1.75) or better in all prerequisite methods/specialization courses, and a minimum GPA of 2.5 is required in the professional preparation and specialization areas.
- 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

Graduation Requirements
To qualify for graduation, a student must successfully complete all coursework to include a minimum overall GPA of 2.5, a minimum 2.5 GPA in all specialization courses, and a minimum 2.5 GPA in professional preparation courses. In addition, students must pass all applicable sections of the Florida Teacher Certification Exam (FTCE) and complete a portfolio according to program guidelines to meet graduation requirements.

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 pro-
gram 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: Deborah Becker; ED 206-E; 407-823-6579*

*Faculty: Ackley, Allen, Boote, Brown, Condly, Gill, Hewitt, Holt, Hutchinson, Johnson, Kaplan, Koger, Loudermilk, Luckett, Lue, Meyer, Miller, Munroe, Otter, Short, Sluti, 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, Angelopoulos, Balado, Blanes, Casado, Cross, Daire, Dieker, Edwards, Englishhart, Ezell, Fuller, Hartle, Hayes, Hines, Hughes, Jennings, K.D. Jones, L. Jones, Klein-Ezell, Little, Manning, Martin, Miller, Mumford, Platt, Robinson, Taub, Thomas-Richmond, W. 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.

Also available is the Master of Arts in Physical Education with emphasis in Exercise Physiology and Wellness. Certification and Master’s level programs are available in 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: Lance Tomei; 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. The Technical Education and Industry Training degree also offers a track specifically designed for students seeking state certification in Business Education (9-12).

**K-12 Education**

Programs in this area are designed for prospective teachers in content areas that may be applied in any school setting from Kindergarten through grade twelve. Specialization is available in Art, Foreign Language (French and Spanish), and Physical Education.
College of Engineering and Computer Science

Dean: Neal C. Gallagher; ENG2 202; 407-823-2156
Interim Associate Dean for Research: Kien Hua;
ENG2 202; 407-823-2156
Associate Dean for Academic Affairs: J. F. Nayfeh;
ENGR 107; 407-823-2455
Director, Academic Support Services: Melissa Falls;
ENGR 107; 407 823-2455

Director of College Honors Programs: Jay Kapat,
ENGR 308; 407-823-2179
Assistant Dean for Distributed Learning: Samuel Richie;
ENGR 289; 407-823-5765
Director, Minority Engineering & Computer Science Programs:
Jacqueline Smith; ENGR 281; 407-823-3466
Undergraduate Majors and Degrees

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<tr>
<th>Engineering Major</th>
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<tbody>
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<td>Civil Engineering</td>
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<tr>
<td>Civil Engineering - Construction</td>
<td>BSCE</td>
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<tr>
<td>Computer Concentration</td>
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<tr>
<td>Computer Engineering</td>
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<td>Computer Engineering - Software</td>
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<tr>
<td>Computer Science</td>
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<tr>
<td>Electrical Engineering</td>
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<td>Electrical Engineering - Wireless Communication</td>
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<tr>
<td>Electrical Engineering - Microelectronics Concentration</td>
<td>BSEE</td>
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<tr>
<td>Electrical Engineering Technology</td>
<td>BSEE</td>
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<tr>
<td>Computer Systems Concentration</td>
<td>BSEET</td>
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<tr>
<td>Electrical Engineering Technology</td>
<td>BSEET</td>
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<tr>
<td>Electrical Systems Concentration</td>
<td>BSEET</td>
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<tr>
<td>Engineering Technology - Design Concentration</td>
<td>BSET</td>
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<tr>
<td>Engineering Technology - Operations Concentration</td>
<td>BSEET</td>
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<tr>
<td>Engineering Technology - Space Systems Concentration</td>
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<tr>
<td>Environmental 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 - Energy Systems Concentration</td>
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<tr>
<td>Mechanical Engineering - Mechanical Systems Concentration</td>
<td>BSME</td>
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<tr>
<td>Mechanical Engineering - Materials Concentration</td>
<td>BSME</td>
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Integrated BS/MS Degree Program

All of the Engineering and Computer Science departments except for the Departments of Civil and Environmental Engineering, Engineering Technology, and the Information Technology Program are offering an integrated BS/MS degree program which will allow students of high academic standing to complete an MS degree at an accelerated pace. The generic rule for students in this program is that they will be allowed to use up to nine hours of intermediate level (5000) graduate courses with a grade of “B” or higher toward fulfillment of both the BS and MS degree requirements. Interested individuals should see the individual program descriptions in the graduate and undergraduate catalogs. They may also contact the department Assistant Chair and/or Graduate Coordinator if they have any further questions.

College Vision

The College of Engineering and Computer Science (CECS) at the University of Central Florida will be recognized nationally and globally for undergraduate and graduate education, research and partnership. A quality, diverse faculty and student body working other disciplines, will achieve high standards in all aspects of education, research and technology application. These accomplishments will take place in a College dedicated to diversity, attaining quality, resource expansion and partnerships throughout all of its operations and programs.

College Mission Statement

Our primary mission is to further the knowledge and practice of the engineering and computer science professions in Central Florida, the state and the nation by:

- Providing the highest quality and innovative learning/teaching environment in undergraduate and graduate curricula, preparing a diverse student body to be effective, contributing members of a technological society and life-long learners.
- Expanding the knowledge base of engineering and computer science through dynamic research and applying new discoveries for problem solving.
- Providing collaborative leadership with external partners in advancing technological breakthroughs for the economic and social well being of humankind.
- Extending educational opportunities to technology practitioners locally, nationally and globally to enhance human performance, and economic and technical development.

College Core Values

- Honesty: We tell the truth and are aboveboard and candid.
- Integrity: We foster trust and are consistent, always taking responsibility for our actions.
- Professionalism: We adhere to a professional code of ethics, continuing to learn while striving for excellence.
- Family: We pursue life outside of our professional environment, giving our family a priority.
- Altruism: We work as a team, help each other, and sacrifice for the common good. We understand that our work is part of a larger purpose and plan.

College Goals

- A national caliber, diverse College that is recognized with leadership in research and teaching.
- Distinguished, innovative undergraduate and graduate programs. A model for university outreach, globalization and partnerships.
- An organization committed to obtaining the highest quality standards in all phases of its operations, processes, and management.
- A organization successful in obtaining resources to support academic development.

Students who seek a challenging technical career in research and development, design, technical sales, manufacturing, management, teaching, or other professions requiring a methodical, creative solution to problems should seriously consider pursuing an education in engineering, engineering technology, or computer science. The internationally-recognized faculty of the College of Engineering and Computer Science, together with its strong curricula of undergraduate and graduate programs, provide an opportunity for ambitious, responsible men and women to become the leaders of our increasingly technological world. Because of the significance of science and technology to our everyday lives, today’s engineer, engineering technologist, and computer scientist must be aware of the impact of his or her creations on society. In addition to the public health and welfare, aesthetics, economics, and energy-use implications, our graduates also consider environmental, sociological, and other humanistic costs. A degree from the College of Engineering and Computer Science is also recognized as a valuable asset to those entering other professional pursuits such as the medical or law professions, architecture, education, the military professions, or even politics.

College Organization

The College of Engineering and Computer Science is organized into three major divisions: the Engineering and Computer Science Division, the Engineering Technology Division, and the Reserve Officer Training Corps (ROTC) Division. The Engineering and Computer Science Division is comprised of the School of Computer Science (SCS) and four engineering departments: the Civil and Environmental Engineering (CEE) Department, the Electrical and Computer Engineering (ECE) Department, the Industrial Engineering and Management Systems (IEMS) Department, and the Mechanical, Materials and Aerospace Engineering (MMAE) Department. The School of Computer Science is comprised of the Computer Science Department and Information Technology. The Engineering Technology Division is comprised of the Engineering Technology (ENT) Department, and the ROTC Division is made up of the Aerospace Studies Department (Air Force ROTC) and the Military Science Department (Army ROTC).

All components of the Engineering and Computer Science Division, except Information Technology, also offer advanced studies leading to master’s degrees and the Doctor of Philosophy degree; see the Graduate catalog for further information on these graduate programs. The undergraduate engineering programs in Aerospace Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Environmental Engineering, Industrial Engineering, and Mechanical Engineering are fully accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place #1050, Baltimore, MD 21202-4012. Telephone: (410) 347-7700, Fax: (410) 625-2238. ABET is recognized by the U.S. Department of Education.
as the sole agency responsible for accreditation of educational pro-
grams 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 bac-
calaureate 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 (BSET)
degree. Both the BSET and BSEET degrees are accredited by the
Technology Accreditation Commission (TAC) of the Accreditation
Board for Engineering and Technology (ABET), 111 Market Place,
#1050,Baltimore, MD 21202-4012, Telephone: (410) 347-7700, FAX: (410)
625-2238. The Engineering Technology Department also offers a
Bachelor of Science degree in Information Systems Technology
(BS). This degree is designed for students who have completed 33
credit hours of lower level technical courses at a community college
in the areas of networking, programming, information technology,
computer science, computer engineering and technology or closely
related disciplines.

The College houses the ROTC Division for those students desiring
to pursue military training while earning their degree. The AFROTC
program offers a minor in Aerospace Studies, and the AROTC pro-
gram 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 undergradu-
ate 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 stu-
dents 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 comput-
er scientists and the impact of the profession on society. Honors stu-
dents also participate in several programmed activities, such as lec-
tures 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 quali-
sified students who did not participate in the University Honors
Program and would like to have the experience of an Honors curricu-
um, and 2) University Honors program students who desire to con-
tinue 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 under-
graduate 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 land 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 semes-
ter 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 stu-
dent 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 spon-
soring faculty member.

To successfully complete the HIM program and receive said designa-
tion, 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 gradua-
tion. Successful candidates will be awarded an Honors in
Engineering/Engineering Technology/Computer Science mention on
the diploma and transcript, representing satisfactory completion of
the program. Moreover, each department will award a limited number
of graduate scholarships (with tuition waivers) to those who apply for
graduate school and have successfully completed this program.

Application for admission to the Honors in the Major Program must
be made to the College of Engineering and Computer Science
Honors Director, Avelino Gonzalez, Engineering Building, room 411.
For more information about The Burnett Honors College programs,
please visit their homepage at http://pegasus.cc.ucf.edu/~honors/.

The LEAD Scholars Program in the College of
Engineering and Computer Science
Engineering, engineering technology, and computer science students
may also participate in the LEAD (Leadership Enrichment and
Academic Development) Scholars Program (see the section on the
LEAD Scholar Program found elsewhere in this catalog).

Additional Information on UCF Baccalaureate
Engineering, Engineering Technology, and
Computer Science Programs
Information on each UCF engineering, engineering technology, com-
puter 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 depart-
ment. For the home page associated with a particular program, see
the listing for that department in the following pages of this catalog.

Department of Civil and Environmental
Engineering
Interim Chair: D.R.Reinhart; ENGG 211; 407-823-2841,
Fax: 407-823-3315
Faculty: Abdel-Aty, Al-Deek, Catbas, Chopra, Cooper, Dietz, Hagen,
Kuo, Nnadi, Oloufa, Onyemelukwe, Radwan, Randall, Reinhart,
Taylor, Waniemista, Wayson, Yeh, Zhao

The Civil and Environmental Engineering Department (CEE) offers
baccalaureate degrees in both Civil Engineering (BSCE) and
Environmental Engineering (BSENV).

The Civil Engineering Program
The Civil Engineering major is concerned primarily with fundamental
civil engineering design and analysis in such areas as structures,
geotechnical engineering, sanitary engineering, water resources,
transportation engineering, and construction engineering. Civil
Engineering students are required to take a minimum of two Project
Design Courses (out of six offered), which synthesize various pre-
requisite course offerings into a design project. Students in the Civil
Engineering with Construction option are required to take two 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.

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College of Engineering and Computer Science

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 a professional environment that is inclusive and diverse.
5. To attain prominence in key areas of Civil Engineering graduate education and research.

Educational Objectives
1. Produce graduates who have technical knowledge that is fundamental to the principles of critical areas of Civil Engineering such as structures, geo-technical, water resources, transportation, construction, surveying, and environmental.
2. Provide a professional engineering education that challenges our graduates to think critically and that will prepare them for a successful professional career.
3. Ensure that all our undergraduate students gain experience in applied engineering design within a broad curriculum.
4. Form and maintain partnerships with industry, government agencies, and professional organizations.
5. Develop awareness of the changing needs of society and local, state, national, and global environment and infrastructure.
6. Provide our graduates with a strong knowledge base to enhance their professional skills and develop their abilities to perform credible research.

The Environmental Engineering Program
The Environmental Engineering major is concerned primarily with the interactions between 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 graduate education and research.

Educational Objectives
1. Produce graduates who have technical knowledge that is fundamental to the principles of critical areas of Environmental Engineering such as solid waste, air pollution, water and waste-water treatment, and water resources.
2. Provide a professional engineering education that challenges our graduates to think critically and that will prepare them for a successful professional career.
3. Ensure that all our undergraduate students gain experience in applied engineering design within a broad curriculum.
4. Form and maintain partnerships with industry, government agencies, and professional organizations.
5. Develop awareness of the changing needs of society and local, state, national, and global environment and infrastructure.
6. Provide our graduates with a strong knowledge base to enhance their professional skills and develop their abilities to perform credible research.

The 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 coursework. Students may use required elective credit to concentrate their degree in one of many research areas, including computational biology, computational complexity, computational geometry, computer architecture, computer graphics, computer networks, computer simulation, computer vision, databases systems, design and analysis of algorithms, distributed computing, digital media, evolutionary computing, graph theory, machine learning, natural language processing and knowledge-based systems, neural networks, operating systems, parallel processing, software engineering and VLSI design tools and hardware algorithms.

Research facilities are organized around laboratories directed by faculty members. Facilities in these laboratories change rapidly and are generally funded through external research grants, supplemented by grant matching and startup funds from SCS. To learn about the current status of research facilities and projects, visit faculty web pages.
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 computer 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 familiar with the development of models, and the design, implementation, and analysis of computer realizations of these models.
4. Students are recognized by their employers for their knowledge and 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 highly competitive in securing entry-level positions in software and computer system development industries.
6. CS majors should be practiced in the use of state-of-art software development methodologies, tools and language.
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.

Mission
The mission of the Bachelor of Science degree in Information Technology is to educate majors to be 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, which includes courses listed as Computer Systems Design I and II (EEL 4767C and EEL 4768C), 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 Information Technology Program
The Information Technology program focuses on the application of computers and technology to solve real-world problems. This preparation will include the abilities to work in teams, to communicate effectively, and to experience a lifetime of learning.

The Computer Engineering Program
The Computer Engineering program is to educate students to become highly skilled in the principles and practices of computer engineering and develop computer engineers that meet market needs.

Department of Electrical and Computer Engineering

Students: Batarseh

Faculty: Batarseh, Bauer, Berrios, Boloni, Chatterjee, DeMara, Ejnioui, Georgiopoulou, A. Gonzalez, F. Gonzalez, Haralambous, Jones, Kasparis, Klee, Kocak, Liou, Malocha, Mikhail, Petrasko, R. Phillips, Qu, Richie, Schiavone, Shen, Sundaram, Turgut, Wahid, Wei, T. Wu, Yuan

Electrical and Computer Engineering Programs
The Electrical and Computer Engineering programs offer baccalaureate degrees in both Electrical Engineering (BSEE) and Computer Engineering (BSCpE). Graduate degrees leading to the Master of Science in Engineering (M.S.E.) and Doctor of Philosophy (Ph.D.) are also offered.

The 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 (EEL 4767C), Computer Systems Design II (EEL 4768C), and Computer Engineering Design (EEL 4851C). Graduate degrees leading to the Master of Science in Engineering (M.S.E.) and Doctor of Philosophy (Ph.D.) are also offered.

Minors:
Information Technology and Computer Science
as Linear Control Systems (EEL 3657), Electronics I and II (EEL 3307C and EEL 4309C), Digital Signal Processing (EEL 4750), Signal Analysis and Communication (EEL 3552C), Computer Systems Design I (EEL 4767C), Networks and Systems (EEL 3123C) and Digital Circuits and Systems (EEL 3342C). Technical electives can give additional design experience leading to work in communications, controls, image and signal processing, microelectronics and solid state devices, microwaves and electromagnetics, optical engineering, and power/power electronics.

**Mission**

The mission of the Bachelor of Science in Electrical Engineering Degree Program is to educate students to become highly skilled in the principles and practices of electrical engineering and develop electrical engineers that meet market needs.

**Objectives**

1. Graduates will acquire sufficient academic competence in fundamental math, science, and engineering principles for employment in electrical engineering.
2. Graduates will acquire sufficient academic competence for advanced graduate studies.
3. Graduates will demonstrate overall competence in the electrical engineering discipline, including the ability to design systems and project, 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/](http://www.ece.ucf.edu/).

**Department of Electrical and Computer Engineering Policies and Procedures**

The department's website is a central point from which visitors may view current policies and procedures of our programs. In particular, links from this page provide up-to-date answers to frequently asked questions (FAQ's) concerning academic advisement, student professional societies, undergraduate research opportunities, and means to effectively communicate concerns (comments, suggestions, complaints). We ask that you visit this site and follow its guidelines before you send e-mail and letters, or make phone calls to faculty members and administrators.

**Department of Industrial Engineering and Management Systems**

*Chair: Lesia Crompton-Young; ENG2 312; 407-823-2204, Fax 407-823-3413*

*Faculty: Armacost, Butler, Chandra, Crompton-Young, Elshennawy, Furterer, Geiger, Hoekstra, Hosni, Kotnour, Kulonda, Lee, Malone, McCauley-Bell, Mollaghasemi, Mullens, Pet-Armacost, Proctor, Rabelo, Ragusa, Reilly, Schrader, Sepulveda, Stanney, Whitehouse, Williams*

Industrial Engineers work to continuously improve the design of systems, processes, or products. They design systems that translate a specific product design into a physical reality in the most productive manner and with the highest possible quality. In doing so, the industrial engineer deals with decisions regarding the utilization of people, materials, machines, and automation (including robotics). Industrial engineers are also skilled in Engineering Economic Analysis and Information Management since they are generally considered to be the natural interface between the technical specialist and management.

Industrial Engineers are generally sought in industry, service, and government organizations. In the industrial sector, the industrial engineer is concerned with improving productivity and quality of the manufacturing, distribution, and management system of organizations. In the service sector, the industrial engineer is concerned with determining the most productive manner in which to deliver high-quality service to the customer. In government organizations the industrial engineer is active in assuring that tax payers receive maximum service to the customer. In government organizations the industrial engineer is concerned with improving productivity and quality of the 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 to the customer. In government organizations the industrial engineer is concerned with improving productivity and quality of the 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 to the customer.

**Department of Mechanical, Materials, and Aerospace Engineering**

*Chair: Ranganathan Kumar; ENG3 307; 407-823-2416, Fax 407-823-0208*

*Faculty: An, Bishop, Q. Chen, R. Chen, Chew, Cho, Chow, Coffey, Conway, Desai, Fang, Hagedoorn, Ham, Ilgbusi, Johnson, Kalita, Kapat, Kar, Kassab, Klementz, Leonnisa, Lin, Minardi, Mosleh, Nayfeh, Nicholson, Peterson, Seal, Sohn, Suryanarayana, Vaidyanathan, Wang, Xu*

**Mission**

To produce industrial engineering professionals and leaders who, working alongside their coworkers, can design and improve operations in industry, business, and government, making them more productive, more responsive, and producing goods and services of higher value to the customer for the global economy of the 21st century.

**Objectives**

1. BSIE graduates will demonstrate knowledge of math, science, and engineering fundamentals. Specifically, the student will have the ability to:
   - Demonstrate general design principles.
   - Use fundamental engineering techniques, skills, and tools for engineering practice.
   - Analyze and interpret data to produce meaningful conclusions and recommendations.

2. BSIE graduates will demonstrate competence in the professional practice of industrial engineering, effectively using both technical and qualitative skills. Specifically, the student will have the ability to:
   - Design systems, components, and processes to meet desired needs.
   - Identify, formulate, and solve industrial engineering problems.
   - Use industrial engineering techniques, skills, and tools for engineering practice.
   - Be a productive member of multi-disciplinary teams.
   - Communicate effectively in both written and spoken presentations.
   - Incorporate contemporary issues into the practice of industrial engineering, including global communication.
   - Have the knowledge to become a Professional Engineer (PE) in the IE discipline.

3. BSIE graduates will understand the leadership responsibilities of a practicing engineer. Specifically, the graduate will understand the need to:
   - Make decisions in light of professional and ethical responsibilities.
   - Understand the impact of engineering solutions in a global and societal context.
   - Understand contemporary issues in the practice of industrial engineering.
   - Engage in life-long learning.

4. BSIE graduates seeking professional employment or admission to graduate education programs will be successful in doing so within six months of graduation.

5. IEMS students will receive relevant curriculum content in a learning environment that facilitates learning and retention.

Mechanical 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, and aerospace technologies. These tools include understanding contemporary topics in mechanical technologies, command of modern engineering tools, design experience, and professional experience appropriate to their post-graduation goal.

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

Life-long Learning: To produce graduates who believe that their undergraduate mechanical engineering education was a wise investment and who desire to continue to develop their knowledge and skills throughout their careers.

Department of Engineering Technology
Chair: R. Eaglin; ENGR 207; 407-823-5937, Fax 407-823-4746
Program Coordinator BSET Programs: L. Morse; ENGR 207; 407-823-4742
Program Coordinator: BSET Programs: A. Rahrooh; ENGR 207; 407-823-4749
Program Coordinator Information Systems Technology: B. Motlagh; ENGR 207; 407-823-2138
Faculty: Burroughs, Coowar, Divo, Ducharme, Misconi, Morse, Motlagh, Osborne, Rahrooh

Mission
The mission of the Engineering Technology program is to educate students to become professional technologists who meet the current needs of industry.

Objectives
1. Provide excellent curriculum content (e.g. math, science, and engineering technology principles, discipline-related topics and skills, and competencies in communication, problem solving, and teamwork) to prepare students for professional practice in engineering technology.
2. Provide an educational program so graduates are successful in attaining professional employment.
3. Provide an excellent learning environment so the graduates are competitive with other BS Engineering Technology graduates from other U.S. institutions.
4. Provide educational content so graduates understand and value professional ethics, integrity, and diversity.

The mission statement and objectives for Engineering Technology are electronically posted and continuously updated. More information on the Engineering Technology programs can be found on the ENT Department home page at http://www.ent.ucf.edu.

Bachelor of Science in Electrical Engineering Technology (BSET)

This program in electrical engineering technology, leading to the BSET degree, provides a structured curriculum with instruction in fundamentals and engineering principles applicable toward working with both present and future technologies in a variety of work environments. Graduates may find employment opportunities in such diverse fields as aerospace, instrumentation, computers, communications, consumer products, banking and education. They may become involved in applied design, product development, manufacturing, quality assurance, production and operations as well as activities such as field engineering, sales, system analysis, technical writing and software design, preparation and programming.

The EET program provides three paths of concentration, there-by providing the student a choice between either a hardware or a software emphasis. The concentration in Electrical systems provides a broad based curriculum in electrical/electronic engineering principles, and their application. Instruction and problem solving experiences are provided in both circuit and system aspects including computer,
communications, controls and electrical power. The concentration in Computer Systems, while providing a firm foundation in electrical/electronics technology, also includes extensive instruction in programming, system design and analysis, and systems program- ming. Projects in solving real-world problems are required of all stu-
dents in this concentration. The concentration in Photonics provides a background in optics, lasers, electrical systems, and the use and theory of light. It is designed to provide the necessary education for a career in the photonics industry.

Bachelor of Science in Engineering Technology (BSET)
The BSET curriculum consists of a carefully integrated program that includes professional studies, general education, and applied ma-
THEMatics and sciences. Through the selection of the upper level techni-
cal 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 pro-
vides advanced course work in preparation for employment at the baccalaureate level in the fields of manufacturing, testing and fabri-
cation of mechanical parts, and the building and construction indus-
tries. Graduates may become involved in applied design, product development, manufacturing or production, to name but a few. The Operations concentration provides an orientation for professional careers in technical management and operations in the manufactur-
ing, sales, services, and construction industries. Graduates may become involved in many diverse areas including product develop-
ment, 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 divi-
sion core.

Bachelor of Science in Information Systems Technology (BS)
The Information 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 cur-
riculum is that it contains less mathematics and natural science than do the BSET and BSEET curricula.

Reserve Officer Training Corps
Air Force ROTC (Aerospace Studies)
Chair: Lt Col Wieck; Trailer 501, Room 103; 407-823-1247, Fax 407-823-2265
Faculty/Staff: Major Nowotny, Major Turner, Capt Williams, 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 commis-
sioned 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 conjunc-
tion 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 com-
pletes 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 com-
plete the POC and accept an Air Force Commission. This enlist-
ment 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, two, and one-year opportuni-
ties. 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 comple-
tion 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 stu-
dents 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 appoint-
ed Second Lieutenants in the United States Air Force. After complet-
ing the training program and entering active duty with a reserve com-
mission, 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 counsel-
sing sessions conducted with each candidate by detachment offi-
cers.
Army ROTC (Military Science)
Chair: LTC Allison R. Reinwald; Trailer 501, Room 110
Faculty/Staff: LTC Christensen, CPT Brown, CPT Hernandez, CPT Plumtree, MSG Helms, MSG Celestine, SSG Phillips, SSG Blunt, SGT Rodriguez, Ms. Betty Martin, Office Manager, 407-823-2430, Fax 407-823-5324

The University of Central Florida, in cooperation with the US Army, provides an opportunity to earn a commission as a Second Lieutenant and compete for an active duty assignment or accept a guaranteed Army Reserve or National Guard position. The program offers both a four-year and two-year option for students who desire a commission. Most students complete the four-year option, which is extended to include Active-duty, Reserve Forces Duty with Army ROTC officer training courses on campus. Students earn about $7500.00 in their last two years. Note: The Army retains sole discretion - in accordance with public law and military regulation - regarding whether or not any applicant is qualified for commissioning. Students may be eligible for the Army’s Simultaneous Membership Program (SMP) which combines Reserve Forces Duty with Army ROTC officer training courses on campus. Students earn about $7500.00 in their last two years. Note: The Army retains sole discretion - in accordance with public law and military regulation - regarding whether or not any applicant is qualified for commissioning education through Army ROTC. More information on the AROTC program can be found on the AROTC Department home page: http://army.ucf.edu

Curriculum
The Military Science on-campus curriculum is divided into two phases: Basic Military Science Course and Advanced Military Science Course.

1. Basic Military Science
   A. The Basic Military Science courses, open to both men and women, are designed for four-year participants and are normally offered during the freshman and sophomore years. These courses address military organizations, equipment, weapons, map reading, land navigation, management skills, grade structure, communications and leadership. There are non-contractual obligations or commitments for students in the Basic course phase. The Basic Course phase offers students the opportunity to see what Army ROTC is all about (MSL 1101, 1102, 2201, 2202). Students will also participate in a Field Training Exercise (FTX). These courses fulfill pre-requisite requirements for entering the Advanced Military Science phase.
   B. Requisites for admission to the Basic Course:
      - Enrollment in a Baccalaureate or Master's degree program
      - Full-time student status

2. Advanced Military Science
   A. The Advanced Military Science courses (MSL 3101, 3202, 4301, 4302), open to both men and women, are taken during the junior and senior years. These courses specialize in small unit tactics, how to prepare and conduct military training, military justice system, staff procedures, decision making and leadership. Students who desire a commission as a Second Lieutenant are contracted and paid a tax-free subsistence of $350.00 per month up to 10 months during their Junior year and $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. 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 that 30 years of age at the time of commissioning (30-year age regulation may be waived for veterans up to age 34)
      - Successful completion of an Army physical examination
      - Agreement to complete the Advanced Course requirements and serve on either Active, Reserve, or National Guard duty as a commissioned officer
      - Full-time undergraduate student status (minimum of 12 hours); full-time graduate student status (minimum six hours)
      - US Citizen
      - A minimum cumulative GPA of 2.0 is required to contract non-scholarship cadets, and a minimum cumulative GPA of 2.5 is required for scholarship consideration.

3. Monetary Allowance
   All contracted and scholarship students enrolled in the Advanced Military Science Course receive a tax-free monetary allowance of $350.00 or $400.00 per month during the school year.

4. Scholarships
   Four, three and two-year scholarships are available for all students who qualify. These scholarships provide full tuition, books and fees for Fall and Spring semesters. In addition, all contracted scholarship students also receive the $250.00, $350.00 or $400.00 monetary allowance per month during the school year. Contact the Enrollment Officer for additional information at 407-823-5383.

5. Placement Credit
   Placement credit is offered to all students with prior service. Prior service experience waives the required Basic Courses. Prior service is extended to include Active duty, Reserve Forces and National Guard. Although prior service does waive the Basic Courses, if a prior service student desires, he/she may elect to enroll in the Basic Courses.

6. Daytona Beach Campus Students
   These students should contact the Professor of Military Science at Embry-Riddle Aeronautical University, Daytona Beach, Florida, (904) 239-6469. Students will participate in a Field Training Exercise (FTX) and will commission, if qualified, with Embry-Riddle.

Summer Training Courses
1. Basic Course Summer Training (Leader Training Course)
   A student can earn placement credit for the Basic Course classes and allowed entry into the Advanced Course by attending a six-week course at Fort Knox, Kentucky, thereby allowing completion of all requirements for commissioning in one year. 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 $900 pay for the training.
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 Communicative Disorders, Criminal Justice and Legal Studies, Health Professions, and Public Administration.

The College fosters excellence in undergraduate and graduate education, research and community services in health, social and justice services. In addition to a PhD program in Public Affairs, the College houses both undergraduate and graduate interdisciplinary programs that contribute to a solid educational foundation in public affairs.

**General Requirements for the Bachelor's Degree**

Some Schools, Departments or Programs in the College are upper division, limited access programs. Acceptance by or registration at the University does not constitute admission to the following: 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 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: Communicative Disorders, Criminal Justice/Legal Studies, Public Administration, Health Sciences Generalist, and Health Services Administration.

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**Academic Advisement**

**Office of Student Support**

*Director: Judith A. Sindlinger; HPA2 115; 407-823-0010; E-mail: hpainfo@pegasus.cc.ucf.edu*

The College of Health and Public Affairs Office of Student Support assists 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.

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**College of Health and Public Affairs**

*Dean: Belinda R. McCarthy; HPA I 365; 407-823-0171*

*Associate Dean, 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](http://www.cohpa.ucf.edu)*

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**UNIVERSITY OF CENTRAL FLORIDA**

2005-2006 Undergraduate Catalog
The discipline of communication sciences and disorders involves the prevention, evaluation, management, and study of human communication disorders in degree programs, hospitals, rehabilitation centers, community health centers, school systems, 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 1966. Students should plan their major or minor in collaboration with a departmental advisor to meet their individual interests and career objectives. In addition to coursework in Communicative Disorders, the Department offers a four-course sequence in American Sign Language open to the entire university community: SPA 4612, SPA 4613, SPA 4614C, and SPA4615.

**Degrees:** Communicative Disorders (BA, BS, MA)

**Tracks:** None

**Minors:** Communicative Disorders

**Certificates:** American Sign Language

**Language Development and Disorders**

**Department of Criminal Justice and Legal Studies**

Chair: B.J. McCarthy; HPA: 311; 407-823-2603


The Department of Criminal Justice and Legal Studies includes two undergraduate 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 roles and functions 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


**Department of Health Professions**

Chair: Diane M. Jacobs; HPA: 210; 407-823-2359

Faculty: Aciero, Bertetta, Douglass, Edwards, Falen, Fotletter, Gosnell, Hamby, Liberman, Ludy, Lylte, Malvey, McDonough, Mendezhall, Noblin, Oeljen, Onengut, Phillips, Novogroski, Parchon, Schellhase, Segal, Smith, Trujillo, Unruh, Wagner, Welker, Worrell

The Department of Health Professions offers baccalaureate programs which prepare students for professions in the fields of Cardiopulmonary Sciences (Respiratory Care), Health Information Management, Athletic Training, Health Services Administration, and Radiologic Sciences. The Department also offers a generalist degree for the undecided pre-professional major and for graduates of diploma programs seeking a baccalaureate degree for professional advancement.

The mission of the Department is to provide quality undergraduate and graduate academic, administrative, and clinical instruction with an accent on educating future leaders of the health care system. The Department seeks first to strengthen existing programs, as well as to identify and develop new programs that fulfill a documented need for health care resources and technology. Another goal is to foster the development of knowledge through research, publications, and scientific presentations. Finally, the Department seeks to provide continuing education for the health care community and consumer health education.

The programs in Cardiopulmonary Sciences, Health Information Management, and Radiologic Sciences require a minimum overall GPA of 2.5 for 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; HPA: 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, disease and patient assessment, and patient management. Upon completion of the undergraduate program, the baccalaureate prepared individual will possess basic and advanced practice 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. This is a limited access program and requires a separate application to the program 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; HPA: 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
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 skills and competencies necessary for successful clinical practice in a variety of settings in which athletic trainers are presently employed. A significant and important aspect of the educational process 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, sports medicine clinics, and professional athletic organizations. Upon successful completion of the course of study, the graduate with a Bachelor of Science degree in Health Sciences is eligible to take the National Athletic Trainer’s Association Board of Certification (NATABOC) Exam. By successfully passing the exam, the student will be recognized as a certified athletic trainer (C.A.T.). The Athletic Training program is accredited by the Joint Review Committee on Education Programs in Athletic Training (JRC-AT) in conjunction with the Commission on Accreditation of Allied Health Education Programs (CAAHEP). This is a competitive program that requires a separate application process following acceptance into the University. Consent from the program director is required.

Degrees: Health Sciences (BS)
Tracks: Athletic Training
Minors: None

Program in Health Sciences-Generalist Track
Director: T. Falen; HPA2 210; 407-823-2369

This department offers a baccalaureate degree in Health Sciences (Generalist Track). The BSHS Program provides an opportunity for credentialed health care professionals to expand the scope of their education through the completion of courses both within and outside of their discipline. The Program also enables students without a health background who are considering a health services career to complete courses in several disciplines in order to make informed career decisions. BSHS students are exposed to courses from the Athletic Training, Health Information Management, and Health Services Administration Programs.

Degrees: Health Sciences (BS)
Tracks: Generalist
Minors: Health Sciences

Program in Health Services Administration
Director: T. Falen; HPA2 210; 407-823-2369

The program works in conjunction with Arnold Palmer Hospital, Central Florida Regional Hospital, Drew Medical, Health Central, HealthSouth Diagnostic Center, Jewett Orthopedic Clinic, Orlando Regional Medical Center, Orlando Regional Lucerne Hospital, Regional MRI, Orlando Regional South Seminole Hospital, UCF Student Health Services and University Diagnostic Institute.

Degrees: Radiologic Sciences (BS)
Tracks: None
Minors: None

School of Nursing
Director: Jean D. Leuner; HPA 220; 407-823-2744

The nursing curriculum leads to the Bachelor of Science in Nursing degree, the basis of professional nursing practice. The BSN graduate is prepared to provide comprehensive care in a variety of acute, community, and rehabilitative settings. Program emphasis includes clinical nursing practice, health promotion and maintenance, and preparation for assuming leadership roles. The baccalaureate curriculum provides the foundation for graduate study in nursing. Associates with a prior baccalaureate or higher degree from a regionally accredited college or university are eligible for the Accelerated Second Degree Bachelor of Science in Nursing option.

Registered nurses licensed in Florida are eligible for admission into the RN to BSN Program at UCF. Each applicant is reviewed individually and guided to prevent repetition of previous coursework. RNs may submit applications during any semester. Contact the School of Nursing for specifics on the RN-BSN program. Courses are offered in Orlando, Cocoa, Daytona Beach, and Leesburg campuses. The RN-BSN is also offered via the Internet.

The goal of the MSN program is to prepare advanced practice nurses to assume leadership positions in a variety of healthcare settings. Majors include Nurse Practitioner (Family, Adult, or Pediatric),
The virtues of public sector employment are numerous. First, the range of employment opportunities is extraordinary and includes a variety of management and staff positions in city and county management, environmental protection, homeland security, human resources, nonprofit management, urban planning, economic development, policy and administration, and emergency management, among others. Second, the salaries are generally highly competitive with private industry, despite common misconceptions to the contrary. Third, public sector employment provides people with the opportunity to “make a difference” for society and help individuals one at a time. Fourth, it provides a superior stability and continuity of career. Those seeking to work in or already employed in the nonprofit sector will find it booming as the intergovernmental system increasingly delegates the delivery of services to nonprofits.

**Degrees:** Public Administration (BA, BS, MPA, MNM)
**Tracks:** None
**Minors:** Public Administration, American Humanities
**Certificates:** Non-Profit Management

**School of Social Work**

**Director:** TBA; HPA1 204; 407-823-2114
**Faculty:** Abel, Allgood, J. Davis, L. Davis, Gammonley, Green, Jacinto, Kohn, Leon, Maiden, Massey, Turnage, VanHook

The School of Social Work offers a professional degree program that is nationally accredited by the Council on Social Work Education. Its primary focus is the preparation of students for entry-level professional social work practice within diverse human service organizations such as hospitals, schools, correctional settings, public welfare departments, child placement organizations, community centers, and counseling agencies. The Social Work program is a limited access program that requires separate application to the School of Social Work.

The School of Social Work also offers the Certificates of Aging Studies (open to all majors), Children's Services (open to SW majors only) and Addictions (open to SW majors only). The Aging Studies Certificate is an interdisciplinary program that helps prepare the students to meet the needs of the elderly citizens of Central Florida. The program may be of particular interest to students who are majoring in health sciences, psychology, social work, nursing or sociology. Other students, such as those majoring in business, physical education, or art education may also find the program valuable. The Certificate in Children's Services (open to Social Work majors only) prepares social work students to respond to the special needs of children and families. This certificate is of special interest to students planning to work in the field of child welfare or related areas. The Addictions Certificate (open to Social Work majors only) prepares students to work in the field of adult and adolescent substance abuse.

**Degrees:** Social Work (BSW, MSW)
**Tracks:** None
**Minors:** Aging Studies, American Humanities
**Certificates:** Addictions, Aging Studies, Children's Services
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 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.
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-F; 407-903-8015
Faculty: Ashley, Breiter, Chen, Croes, Dickson, DiPietro, Duke, Fisher, Juge, Kaufman, Krebs, Logan, Milman, Muller, Murphy, Ricci, Rompf, Ross, Severt, Tesone, Upchurch, Wang
Website: www.hospitality.ucf.edu

The hospitality industry currently represents the second largest employer in the United States and is the major part of the rapidly growing services sector of the economy. Because of its unique location in the premier tourist destination in the world, the Rosen 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 42 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 brand new 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: 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.
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</table>
Students in the Accounting major must maintain a 2.0 or higher GPA in all Accounting and Tax courses taken at UCF. Failure to maintain the required 2.0 Grade Point Average will result in the student being placed on lack of progress in the major. Lack of Progress in the major will continue until such time as the student's cumulative GPA in all Accounting and Tax courses reaches 2.0 or higher. If a student on lack of progress in the major fails to achieve a 2.0 minimum GPA in Accounting and Tax courses in a subsequent term, that student will be dropped as an accounting major. A student who is dropped may seek readmittance as an accounting major. 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.

All 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. All students must have a “C” (2.0) or better in each common program prerequisite.

4. Special College and/or Departmental Requirements
Students must earn at least 60 credit hours of coursework outside of the College of Business (ECO 2013, 2023, 3401, and 3411 count towards this 60 hour requirement). Students who change degree programs and select this major must adopt the most current catalog. Students must have at least a 2.0 GPA in all Accounting and Tax courses taken at UCF. Failure to maintain the required 2.0 Grade Point Average will result in the student being placed on lack of progress in the major. Lack of Progress in the major will continue until such time as the student's cumulative GPA in all Accounting and Tax courses reaches 2.0 or higher. If a student on lack of progress in the major fails to achieve a 2.0 minimum GPA in Accounting and Tax courses in a subsequent term, that student will be dropped as an accounting major. A student who is dropped may seek readmittance as an accounting major. 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. All students must have at least a 2.0 GPA in the College of Business and in the accounting major. A grade of “C-” (1.75) or lower is not satisfactory for continuing into other accounting courses and will not count toward graduation for an accounting major.

5. Foundation (Required)
(12 hrs)
ACG 3131 Financial Accounting Concepts and Analysis 3 hrs
ACG 4401 Accounting Information Systems 3 hrs
ACG 3361 Intermediate Managerial Accounting 3 hrs
TAX 4001 Taxation of Business Entities and Transactions 3 hrs

6. Area Specialization/Concentration Requirements
(9 hrs)
Select one set from the following area specialization options:

A. Public Accounting
ACG 3141 Intermediate Financial Accounting 3 hrs
ACG 3501 Accounting and Auditing in the Public Sector 3 hrs
ACG 4651 Auditing 3 hrs

B. Managerial Accounting
ACG 4671 Internal Auditing 3 hrs
ACG 5346 Intermediate Managerial Accounting 3 hrs
FIN 3414 Intermediate Corporate Finance 3 hrs

C. Accounting Information Systems
ACG 4671 Internal Auditing 3 hrs
ACG 5405 Advanced Accounting Information Systems 3 hrs
ISM 3005 MIS Techniques 3 hrs

D. Governmental and Not-For-Profit Accounting
ACG 3501 Accounting and Auditing in the Public Sector 3 hrs
ACG 4671 Internal Auditing 3 hrs
ACG 5517 Financial Accounting and Auditing for Governmental and Nonprofit Organization 3 hrs

E. General Accounting
Select one additional financial reporting course:
ACG 3141 Intermediate Financial Accounting 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 Restricted Electives listed below
Note: Course substitutions in any area require approval by the Director, School of Accounting. A grade of “B” or better in pre-requisite course required to take graduate level courses.

7. Restricted Electives
(3 hrs)
Students may choose among the following accounting and accounting-related business courses:
ACG 3131 Financial Accounting Concepts and Analysis 3 hrs
ACG 3361 Intermediate Managerial Accounting 3 hrs
ACG 3141 Intermediate Financial Accounting 3 hrs
ACG 3501 Accounting and Auditing in the Public Sector 3 hrs
ACG 4401 Accounting Information Systems 3 hrs
ACG 4651 Auditing 3 hrs
ACG 4671 Internal Auditing 3 hrs
ACG 4832 Approved Special Topics Courses in Accounting 3 hrs
ACG 4970H** Honors Thesis in Accounting 3 hrs
TAX 4001 Taxation of Business Entities 3 hrs
ACG 5346 Advanced Managerial Accounting 3 hrs
ACG 5405 Advanced Accounting Information Systems 3 hrs
ACG 5517 Governmental and Nonprofit Accounting 3 hrs
ACG 5205 Additional Financial Accounting 3 hrs
BUL 5332 Advanced Business Law Topics 3 hrs
FIN 3414 Intermediate Corporate Finance 3 hrs
FIN 4453 Financial Models 3 hrs
ISM 3005 MIS Techniques 3 hrs
ISM 4212 Database Management Systems 3 hrs
TAX 5015 Advanced Taxation Topics 3 hrs
(HPA electives to be added for Governmental Specialization)
**Enrollment restricted to students accepted into the Honors in the Major Program
8. Honors in the Major (6 hrs)

Eligibility: Requirements for admission to Honors in the Major are: completion of at least 60 semester hours of college credits including at least 12 graded upper-division hours at UCF; at least a 3.5 GPA within the major; and at least a 3.2 cumulative GPA including all upper-division courses regardless of institution.

Admission: Application for admission to the Honors in the Major program must be approved by both the Honors in the Major Coordinator for the School of Accounting and Associate Dean of the Honors College plus the payment of $25.00 one-time membership dues.

Requirements: Students accepted into the Honors in the Major Program must complete either:

* ACG 4903 Directed Readings in Accounting 3 hrs
* ACG 4904 Honors Seminar in Accounting 3 hrs

ACG 4970 Honors Thesis in Accounting 3 hrs

* With approval of the School of Accounting Honors in the Major Coordinator, the Directed Readings or Honors Seminar course will satisfy one of the Area Specialization course requirements toward satisfaction of the course requirements for the Accounting Major.

9. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation. 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 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 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/aacc/

Community/Junior College Transfer Notes

• Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Micro-economics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.

• Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program 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.

• Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.

• Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - ACCOUNTING

Freshman

<table>
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<td>Cull Hist II*</td>
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<td>MAC 1105*</td>
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<td>Psy/Soc/Anth</td>
<td>CGS 2100C*</td>
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Graduation: must complete 9 hours in a Summer term

Sophomore

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<tbody>
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<td>ECO 2013*</td>
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<tr>
<td>ACG 2021*</td>
<td>ACG 2071*</td>
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<td>SPC 1600</td>
<td>POS 2041</td>
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<td>***Elective</td>
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<tr>
<td>***Elective</td>
<td>***Elective</td>
</tr>
<tr>
<td>*C (2.0) or better grade required in each class</td>
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</table>

** Accounting majors must have a “C” (2.0) or better in each class in the major to include law and tax and a 2.0 GPA in major

Junior

<table>
<thead>
<tr>
<th>1st Term</th>
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<tbody>
<tr>
<td>GEB 3031</td>
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<tr>
<td>*BUL 3130</td>
<td>GEB 3356</td>
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<td>MAN 3025</td>
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<td>**ACG 3130</td>
<td>**ACG 4401</td>
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Senior

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</table>

***General electives as required to reach 120 semester hours.

ACTUARIAL SCIENCE (B.S.)

College of Arts and 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

L. Guo, 407-823-5532

Admission Requirements

Students must apply for admission to the Actuarial Science Concentration by March 15 of the Spring semester two years prior to expected graduation. Transfer students expecting to graduate in less
than two years should apply immediately upon admission to UCF.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- All statistics courses except STA 2023, STA 3032, and those protected by Florida Common Course Numbering must be taken from, or approved by the Statistics Department at UCF.
- Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Statistics Department.
- Students must earn at least a “C” (2.0) in each STA course.
- A minimum 2.0 average is required in all computer science and mathematics courses that count toward a statistics major.
- Co-op or internship credit cannot be used in this major without prior approval.
- Students should consult with a departmental advisor.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (39 hrs)
   - Communication Foundations
     - Select MAC 2311 Calculus with Analy Geo I
     - Select STA 2023 Statistical Methods I
   - Cultural and Historical Foundations
     - Select ECO 2013 Princ of Macroeconomics
   - Mathematical Foundations
     - Select STA 2023 Statistical Methods I
   - Social Foundations
     - Select ECO 2013 Princ of Macroeconomics
   - Select an ANT, PSY or SYG listed course
   - Science Foundations 8 hrs
     - Select BSC 2010C Biology I
     - Select PHY 2053C College Physics I or
     - CHM 2045C Chemistry Fundamentals

2. Common Program Prerequisites (14 hrs)
   - COP 3502C Computer Science I
   - ECO 2013 Princ of Macroeconomics
   - ECO 2023 Princ of Microeconomics
   - MAC 2311 Calculus with Analy Geo I
   - MAC 2312 Calculus with Analy Geo II
   - MAC 2313 Calculus with Analy Geo III
   *See Transfer Notes for possible substitutes

3. Core requirements (44 hrs)
   - ACG 2021 Princ Financial Accounting
   - STA 2023 Statistical Methods I
   - STA 4321 Statistical Theory I
   - STA 4322 Statistical Theory II
   - STA 4542 Pracicum Act Science
   - STA 4183 Theory of Interest
   - STA 4130 Life Contingencies I
   - STA 4131 Life Contingencies II
   - COT 4000 Numerical Calculus
   - ENC 3241 Writing for Technical Professionals
   - BSC 2010C Biology I
   - Select one course
     - MAS 3105 Linear and Matrix Algebra
     - MAS 3106 Linear Algebra
   - B. Select two courses and associated labs (including 4 hrs GEP)
     - BSC 2011C Biology II (PR: BSC 2010C)
     - CHM 2045C Chemistry Fundamentals
     - CHM 2046 & 2046L Chemistry Fundamentals II & Lab
     - PHY 2053C College Physics I
     - PHY 2054C College Physics II
   - C. Select three from among the following:
     - STA 4692 Applied Time Series
     - STA 4641 Risk Theory & Decision
     - STA 4163 Statistical Methods II
     - STA 4164 Statistical Methods III
     - STA 4676 Life Testing Analysis
     - STA 4675 Demographic Statistics
     - STA 4187 Theory of Graduation
     - STA 4639 Problems in Actuarial Science
     - STA 5139 Credibility Theory and Loss Distributions
     - STA 5626 Casualty Insurance

4. Restricted Upper Division Electives (15 hrs)
   - Select from upper division or graduate statistics, actuarial science, or mathematics courses
   - Nine of the hours must be 4000 level or above
   - Selected courses in business may be used but must first be approved by the Statistics Department

   MAC 2233, 2253, 2254; all MAE courses; and MHF 4404 may not be used

5. Departmental Exit Requirements
   - Earn a grade of “C” (2.0) or better in each STA course.
   - Computer competency met by COP 3502C.

6. Foreign Language Requirements (0-8 hrs)
   - Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Graduation: none

7. Electives (variable)
   - Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - At least 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Mathematics, Mathematics Education, Statistics

Related Minors: Statistics, Mathematics

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- COP 3502C*: any COP programming language course.
- However, COP 3502C is a prerequisite for Computer Sciences courses and may need to be taken.
- BSC 2010C*: any laboratory BSC, CHM, or PHY course. However this is a prerequisite for BSC 211C 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 alternatives in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer
- Math test See catalog

Freshman Year
- Fall
  - ECO 2013 Princ of Macroeconomics
  - MAC 2311 Calculus with Analy Geo I
  - STA 2023 Statistical Methods I
  - STA 2023 Statistical Methods II
  - STA 4641 Risk Theory & Decision

- Spring
  - STA 4187 Theory of Graduation
  - STA 4639 Problems in Actuarial Science
  - STA 5139 Credibility Theory and Loss Distributions
  - STA 5626 Casualty Insurance
  - STA 5646 Casualty Insurance

Sophomore Year
- Fall
  - PHY 2053C College Physics I
  - PHY 2054C College Physics II

- Spring
  - STA 4183 Theory of Interest
  - STA 4183 Theory of Interest
  - STA 4183 Theory of Interest

Junior Year
- Fall
  - ENC 3241 Writing for Technical Professionals

- Spring
  - STA 4942 Practicum Act Science

Senior Year
- Fall
  - STA 4221 Stat Methods I

- Spring
  - STA 4221 Stat Methods II

Elective* Check restrictions

Graduation:
- None

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2. Common Program Prerequisites

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<th>Course Code</th>
<th>Prerequisites</th>
<th>Credits</th>
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<td>req# 4-ResElec</td>
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Senior Year

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<td>req# 4-ResElec</td>
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<tr>
<td>STA 4211C*</td>
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ADVERTISING/PUBLIC RELATIONS (B.A.)

College of Arts and Sciences

Nicholson School of Communication, COM 250
407-823-2829

http://www.cas.ucf.edu/communication

E-mail: ad-pr@ucf.edu

Bob Davis

Limited Access program.

Admission Requirements

- Students should apply to become Advertising/Public Relations majors only after completing all requirements for admission.
- Deadlines are:
  - October 1, 2005 for Spring 2006
  - Feb 1, 2006 for Summer 2006
  - July 1, 2006 for Fall 2006

- Attain an overall minimum 2.25 GPA based on a minimum of 45 credit hours of college work. Note: meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis. The GPA cut-off varies somewhat with the quality of applicants, but for the previous acceptance periods, the minimum GPA did not drop below 3.3.
- Have acceptable keyboard skills.
- Receive a positive evaluation of other factors specified by the School.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op credit can be used in the major.
- Students should consult with a departmental advisor.
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF School of Communication.
- Students electing both a major and minor in the School must take the minor courses in excess of the 120 hours required for graduation.
- Students enrolled in the major may not take more than 40 total credit hours from the Nicholson School of Communication.
- Students enrolled in the major must take at least 65 hours in the liberal arts and at least 80 hours outside the Nicholson School of Communication.
- A maximum of six credit hours of internship may be earned in one semester. A total of nine credit hours of internship may be earned within the 120 credit hours required for graduation.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

A. Communication Foundations

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2. Common Program Prerequisites

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<td>STA 4211C*</td>
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3. Core requirements (30 hrs)

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<tr>
<td>STA 4163*</td>
<td>req# 3c-Core</td>
<td>3</td>
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<tr>
<td>STA 4939*</td>
<td>req# 3c-Core</td>
<td>3</td>
</tr>
<tr>
<td>ST 2011C</td>
<td>Principles of Advertising</td>
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<td>ST 4101</td>
<td>Advertising Copywriting</td>
<td>3 hrs</td>
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<td>ST 4103</td>
<td>Radio- TV Advertising</td>
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<td>COM 3110</td>
<td>Business and Prof Communication</td>
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<td>MMC 4254</td>
<td>Ad/PR Campaigns</td>
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<tr>
<td>MMC 3420</td>
<td>Mass Media Research Methods</td>
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<td>Mass Communication Law</td>
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<td>PUR 4801</td>
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Students who complete a 3-hour internship may take either

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<td>ADV 4103</td>
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<td>ADV 4941</td>
<td>Internship</td>
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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 or STA 1060C.

5. Foreign Language Requirements (0-8 hrs)

- Admission: Met by graduation requirement
- Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

6. External Restricted Electives (variable)

Select primarily from upper level courses, with School advisor’s approval. Should be taken outside of the School of Communication.

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hours

Related Programs: Marketing

Related Minors: Business, Marketing, Psychology

Transfer Notes: Courses taken at community colleges do not substitute for Upper Division courses. Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

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 Code</th>
<th>Prerequisites</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENC 1101</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 1010C</td>
<td>Principles of Statistics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 1060C</td>
<td>Statistics Using Excel</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 1060C</td>
<td>Statistics Using Excel</td>
<td>3 hrs</td>
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Sophomore Year

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</thead>
<tbody>
<tr>
<td>ENC 1001</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 1060C</td>
<td>Statistics Using Excel</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 1060C</td>
<td>Statistics Using Excel</td>
<td>3 hrs</td>
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Junior Year

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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENC 1001</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 1060C</td>
<td>Statistics Using Excel</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 1060C</td>
<td>Statistics Using Excel</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

2005-2006 Undergraduate Catalog
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1111C Engineering Computer Graphics 2 hrs
EGN 1007C Engineering Concepts & Methods 1 hr
EGN 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics 3 hrs
EGN 3334 Thermodynamics 3 hrs
EMA 3706 Structure & Properties of Aerospace Materials 3 hrs
EGN 3573 Principles of Electrical Engineering 3 hrs
STA 3023 Probability & Statistics for Engineers 3 hrs
EAS 3010 Fundamentals of Aerospace Flight 1 hr
EAS 3101 Aerodynamics I 3 hrs
EAS 3800C Aerospace Engineering Measurements 3 hrs
EAS 3810C Design of Aerospace Experiments 2 hrs
EAS 4105 Flight Mechanics 3 hrs
EAS 4134 High-Speed Aerodynamics 3 hrs
EAS 4200 Flight Structures 3 hrs
EAS 3530 Space Systems Concepts or
EAS 4400 Spacecraft Attitude Dynamics or
EAS 4505 Orbital Mechanics 3 hrs
EAS 4300 Aerothermodynamics-Propulsion Sys 3 hrs
EML 3034 Modeling Methods in MMAE 3 hrs
EML 4312C Feedback Control 3 hrs
EGM 3601 Solid Mechanics 3 hrs
EML 3701 Fluid Mechanics I 3 hrs
EAS 3494C Discrete Control Aerospace Vehicles 3 hrs
EML 4535C Introduction to CAD/CAM 3 hrs

4. Approved Technical Electives (4 hrs) Technical electives are available in the BSAE program to address specific student interests in a variety of technical areas. Students must consult with their assigned academic advisor for a list of the approved technical electives and the semesters when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)
- EGN 4412C Interdisciplinary Design I or
- EAS 4700C Aerospace Design I 3 hrs
- EGN 4413C Interdisciplinary Design II or
- EAS 4710C Aerospace Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

6. Foreign Language Requirements (0-8 hrs) Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation. Graduation: none

7. University Minimum Graduation Requirements
- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residence at UCF.
- 25% 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 semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Courses: Mechanical Engineering, Aerospace Engineering, and Computer Science.

Transfer Notes:
- Courses taken from Community Colleges do not substitute for upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.
- EGN 1006C and EGN 1007C are required courses for incoming freshman students only. The two credit hours for these courses may be substituted by an approved Aerospace Engineering technical elective for transfer students.
Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Aerospace Engineering 128 semester hours required

FIRST YEAR

Fall (14 credit hrs, 18 cont hrs)¹
*ENC 1101 English Comp I 3
*CHS 1440 Chem for Eng or Technical Electives 5
EML 3034 Model Meth’s MMAE 3
EAS 3101 Fund of Aerosp Flight 1
*Humanities/History 3
*Social Foundations 3

Spring (15 credit hrs, 19 cont hrs)¹
ENC 1007C Eng Conc/Meth 1
*EGN 1008C Eng Prof 1
EGN 1111C Eng Comp Graphics 2
Summer (10 credit hrs, 10 contact hrs)¹, 3
MAC 2313 Calculus III 4
EAS 3010 Fund of Aerospace Mat 1
*Humanities/History 1
*Social Foundations 3

SECOND YEAR

Fall (14 credit hrs, 17 cont hrs)¹
*Humanities/History 1
*MAP 2302 Diff Equations 3
*PHY 2048 Phys Eng/Sci I w/lab 4
*MAP 2302 Diff Equations 3
EAS 3810C Dsgn Aerosp Expr 2
*Social Foundations 3

Spring (12 credit hrs, 12 cont hrs)
EGN 3373 Prin Elec Eng 3
EGN 3321 Engr Anal-Dynmcs 3
EGN 3343 Thermodynamics 3
EGN 3601 Solid Mechanics 3
*Humanities/History 1
*Social Foundations 3

THIRD YEAR

Fall (15 credit hrs, 19 cont hrs)
EML 3034 Model Meth’s MMAE 3
EML 3701 Fluid Mechanics I 3
EAS 3800C Aerosp Eng Msr 3
EML 4312C Feedback Control 3
EAS 4200 Flight Structures 3
*Science Foundations 9 hrs

Spring (14 credit hrs, 18 cont hrs)¹
EAS 3010 Fund of Aerodynamics 3
EAS 3810C Dsgn Aerosp Exp I 3
EAS 3840C Dynamic System 3
EAS 4400S Flight Dyn or EAS 4400S Flight Dyn 3
EGN 4113C Interdisciplinary Design II 5
*Earth Science 3

FOURTH YEAR

Fall (12 credit hrs, 18 cont hrs)
EML 4535C CAD/CAM 3
EAS 4105 Flight Mechanics 3
EAS 4134H High-Spd Aerody 3
EAS 4700C Aerosp Design I 3
EGN 4412C Interdisciplinary Design 1

Spring (14 credit hrs, 18 cont hrs)¹, 2
EAS 4300 Aerotherm Prop Sys 3
EAS 4710C Aerosp Design II 3
EGN 4412C Interdisciplinary Design I 3
EGN 4413C Interdisciplinary Design II 5

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Students should consult with the MMAE Department in ENGR 307 for a list of approved technical electives and for the terms when specific courses of this type are to be offered. Students should check with their faculty advisor frequently to ensure they are making satisfactory progress toward their degree.
3. The State University System requires most students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.
4. Aerospace engineering students must earn at least 32 hours in residence at UCF.

IMPORTANT NOTICE
- B olded course should be taken in the term noted or in a previous term if your schedule permits and as long as all prerequisites for that course have been met.
- These courses are given only during the term noted in this program of study, therefore it is imperative that you take them in the suggested sequence. Failure to do so may result in a considerable delay in the date of your graduation.
- Non-bolded course may be taken at any time as long as all prerequisites for that course have been met. Caution must be taken to ensure that you take courses in a proper sequence regarding prerequisites.
- If you do not have a higher level programming language background you must take a course in this area prior to taking EML 3034 (“C” or FORTRAN recommended).
- If you are not ready to begin the calculus sequence upon entry to the Aerospace Engineering curriculum it is imperative that you meet with your advisor to plan a personalized program of study. Mathematics and physics are cornerstones of a quality engineering program and it is important for your academic career that you proceed accordingly.

Integrated BS/MS Degree Program
The Mechanical, Materials, and Aerospace Engineering Department offers the Integrated BS/MS program to students of high academic standing. This program allows up to nine graduate hours to be substituted for specified BS requirements. See advisor for appropriate substitutions.

ANIMATION TRACK in ART
See Art - Animation Track.

ANTHROPOLOGY (B.A.)
College of Arts and Sciences
Department of Sociology and Anthropology, PH 403, 407-823-2227,
http://www.cas.ucf.edu/soc_anthro/firstpage.html
E-mail: anthropology@ucf.edu
J. Corzine, 407-823-2227

The Anthropology major results in broad holistic understanding of humans and the human condition, both past and present. Students study all subfields of Anthropology: Archaeology, Cultural Anthropology, Linguistics, and Physical Anthropology. Students with sufficient course background may participate in ongoing archaeological excavations associated with the Maya culture in the Central American country of Belize.

Admission Requirements:
none

Degree Requirements
- UCF students who change degree programs and select this major must adopt the most current catalog.
- 1. UCF General Education Program (36 hrs)
  1. Communication Foundations 9 hrs
  2. Cultural and Historical Foundations 9 hrs
  3. Mathematical Foundations
    Select ECO 2013, ECO 2023, POS 2041 3 hrs
  4. Social Foundations
    Select one: ECO 2013, ECO 2023, POS 2041 3 hrs
  5. Science Foundations
    Select one: ECO 2013, ECO 2023, POS 2041 3 hrs
  6. E. Science Foundations
    Select one: PSC 1121, PHY 2053C, CHM 1020 3 hrs
  7. Select ANT 2511 The Human Species 3 hrs

2. Common Program Prerequisites (0 hrs)
- ANT 2511 The Human Species

3. Core Requirements: Lower Level (6 hrs)

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ANT 2100  Arch & the Rise of Human Cult  3 hrs
ANT 2410  Cultural Anthropology  3 hrs

4. Core Requirements: Upper Level (12 hrs)
All students are required to take the following upper level courses in the four subdisciplines of Anthropology:
ANT 3145  Archaeology of Complex Societies  3 hrs
ANT 3640  Language and Culture  3 hrs
ANT 4034  History of Anthropological Thought  3 hrs
ANT 4586  Human Origins  3 hrs

5. Area Study (3 hrs)
All students are required to take one of the following courses:
ANT 3163  Mesoamerican Archaeology
ANT 3164  Ancient Incas
ANT 3168  Maya Archaeology (or ANG 6168)
ANT 3311  Indians of the SE US
ANT 3312  Ethnology of North American Indians
ANT 3313  Indians of N American High Plains
ANT 3314  Indians of the Northeast Woodlands
ANT 3315  Indians of the Northwest Coast
ANT 3319  The Anthropology of Diaspora
ANT 3332  Peoples and Culture of Latin America
ANT 3340  Caribbean Cultures
ANT 3363  Anthropology of Japan
ANT 4308  Gender issues in Latin America
ANG 6324  Contemporary Maya

6. Restricted Electives (18 hrs)
Six other Anthropology courses must be taken to complete the major. These may include other area study courses (see 5. above) or any other Anthropology courses that may be offered (see below).
ANT 3115  Archaeological Method and Theory
ANT 3142  Old World Prehistory
ANT 3159  Florida Archaeology
ANT 3184  Archaeology of Complex Societies
ANT 3212  Peoples of the World
ANT 3241  Magic, Ritual, and Belief
ANT 3245  Native American Religions
ANT 3262  Rural Society
ANT 3273  Law and Culture
ANT 3302  Sex, Gender, and Culture
ANT 3341  Biobehavioral Anthropology
ANT 3550  Primatology
ANT 3701  Applied Anthropology
ANT 4153  North American Archaeology
ANT 4180C  Seminar in Laboratory Analysis
ANT 4462  Medical Anthropology
ANT 4521C  Forensic Anthropology
ANT 4525C  Human Osteology
ANT 4624  Advanced Archaeological Field Work
ANG 5166  Problems of Maya Archaeology
ANG 5167  Maya Hieroglyphs
ANG 5228  Maya Iconography

7. Departmental Exit Requirements
A grade of “C” (2.0) or better in all courses used for the major
Computer Competency met by ANT 2100
Students will be required to take a standard exit exam.

8. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement.
Graduation: 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
Related Minors: African-American Studies, American Studies, Anthropology, Anthropology in Multicultural Studies, Asian Studies, Judaic Studies, Latin American and Iberian Studies, Russian Area Studies, Sociology, and Women’s Studies

Transfer Notes:
Courses taken at community colleges do not substitute for Upper Division courses
Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- ANT 2000: any ANT course. However, this course is a prerequisite and must be taken regardless.
- ANT 2511: any ANT course. However, ANT 2511 will need to be taken for the major.

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 1101 Composition I  3
EUH 2000* req# 1B1-GEP  3
REL 2300* req# 1B3-GEP  3
Spring
ANT 2100 Arch the of  3
ANT 2410 Cult Anthro Anthro  3
PSC 1121* req# 1E1-GEP  3
Elective* Check restrictions  3

Sophomore Year
Fall
ANT 2511 The Human Species  3
ENC 1102 Composition II  3
MAC 1105 College Algebra  3
COM 1000* req# 1A3-GEP  3
Spring
ANT 2000 General Anthro  3
ANT 2511 The Human Species  3
REL 2300* req# 1B3-GEP  3
PSC 1121* req# 1E1-GEP  3

Junior Year
Fall
ANT 2100 Arch the of  3
ANT 2410 Cult Anthro Anthro  3
Elective* Check restrictions  3
SPN 1120* req# 6-ResElect  3
Spring
ANT 3145 Arch of Cmplx Soc  3
ANT 3142* req# 6-ResElect  3
Elective* Check restrictions  3
Elective* Check restrictions  3

Senior Year
Fall
ANT 3302* req# 5-Area  3
SPN 1121* req# 6-ResElect  4
Spring
ANT 3302* req# 6-ResElect  3
Elective* Check restrictions  3
Elective* Check restrictions  3
Elective* Check restrictions  3
Elective* Check restrictions  3

ART (B.F.A.)
College of Arts and Sciences
E-mail: art@ucf.edu
J. Chavda, 823-2676
The BFA degree is recommended for studio art majors who plan to attend graduate school.
Note: Although the department maintains a small computer lab for student use, Graphic Design and Animation majors must have continual access to a laptop computer. Contact the department for the
UCF Degree Programs

Admission Requirements
- All junior level students in this program must satisfactorily complete the mandatory portfolio review before enrolling in upper division courses. The Spring review takes place the first week of March. The Fall review takes place the first week of October.
- They must also have maintained at least a 2.5 overall GPA in all studio classes and at least a 2.5 GPA in ART 2201C and ART 2203C (Design Fundamentals) prior to their portfolio review.
- Students unable to satisfy the above requirements may continue in the Art Department as an Art History/Digital Studio Application track.
- Students may apply for the BFA Program in the first semester or their Junior year. If they have a 3.0 overall average in the Art Department and a 3.5 in their specialization they are automatically accepted. Students who do not meet these requirements may petition the BFA committee for acceptance.
- Animation B.F.A. majors should consult with an Animation advisor for admission requirements.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Art. Nine of these must be in an area of specialization.
- Grades below "C+" (2.25) in lower level courses do not satisfy major requirements.
- Co-op credit cannot be used in this major.
- Students should consult with a departmental advisor in their specialization.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
   - Select a course from group B.1
   - Select ARH 2050 History of Western Art I 3 hrs
   - Select ARH 2051 History of Western Art II 3 hrs
   B. Cultural and Historical Foundations
   - Select MGF 1106 Finite Mathematics 3 hrs
   - Select STA 1060C Statistics Using Excel 3 hrs
   - Prefer STA 1060C Statistics Using Excel 3 hrs
   - 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
   - Prefer STA 1060C Statistics Using Excel 3 hrs
   D. Social Foundations
   - 6 hrs
   E. Science Foundations
   - 6 hrs

2. Common Program Prerequisites (18 hrs)
   - ART 2201C Design Fundamentals 2-D 3 hrs
   - ART 2203C* Design Fundamentals 3-D 3 hrs
   - ART 2300C* Drawing Fundamentals I 3 hrs
   - ART 2301C* Drawing Fundamentals II 3 hrs
   - ARH 2050 History of Western Art I 3 hrs
   - ARH 2051 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 3 hrs

3. Core Requirements (9 hrs)
   - ART 2200C* Art as Interface 3 hrs
   - ARH 2500 Survey of Non-Western Art 3 hrs
   - ART 2XXX-4XXX any ART prefix, studio, or media course 3 hrs
   - ART 3950 Portfolio Review 0 hrs

4. Restricted Electives (42 hrs)
   a. Specialization: 18 hrs
   Select six upper division courses from one area: (classes with an asterisk may be repeated for credit)
   - Ceramics (ART 2754C, ART 3760C, ART 3764C, ART 4783C*)
   - Animation (ART 3616C, ART 4225C, ART 4971*, FIL 3286C, FIL 3287C*, FIL 4288C*, FIL 4289C*)
   - Drawing (ART 3332C, ART 4320C*)
   - Drawing/Printmaking Combination (ART 3332C, ART 4320C*, ART 4402C*)
   - Drawing/Illustration Combination (ART 3332C, GRA 3151C, ART 4203C*, GRA 4154C*)
   - Graphic Design (GRA 3100C, GRA 3112C, GRA 2140C, GRA 4196C)
   - Painting (ART 3504C, ART 4505C*)
   - Photography (PGY 2401C, PGY 4420C*, PGY 4440C)
   - Sculpture (ART 2701C, ART 4710C*)
   *may be repeated for credit

b. Elective in Art: 15 hrs
   Select five Art courses; two of which may be lower division. Select from at least three of the following areas, excluding the area of specialization.
   - Animation, Ceramics, Drawing, Fibers and Fabrics, Graphic Design, Illustration, Painting, Photography, Printmaking, Sculpture, and Special Topics Studio Courses.

   c. Additional Electives 9 hrs
   - ARH 3XXX-4XXX Art History Courses or Any upper level Humanities or Social Science course(s)
   - Animation specialization requires FIL 3410 and any 6 credits of upper level art courses
   (A maximum of six hours of Independent Study, Practicum, and Internship are permitted.)

5. Departmental Exit Requirements (3 hrs)
   - ART 4935 BFA Exhibit/Seminar
   (BFA Exhibit Seminar is only offered during Spring Semester)
   - Achieve at least a "B" GPA (3.0) overall in courses within the major
   - Each senior is required to submit a portfolio of representative work in the student’s specialization, for review and approval by faculty, during their last semester of matriculation toward the degree
   - Computer competency met by STA 1060C or GRA 2101C

6. Foreign Language Requirements (0-8 hrs)
   - Admission: Met by graduation requirement
   - Graduation: Proficiency equivalent to one year of college instruction in a 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. 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. 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 120 hours

Related Programs: Art History, Studio Art (BA), Art Education, Animation, Digital Media

Related Minors: Partners in Visual Art Education

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- ART 2203C*: A student may substitute ART 2202C.
- GRA 2101C*: A student may substitute any three hour media 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
**ART - ANIMATION TRACK (B.F.A.)**

**College of Arts and Sciences**

**Animation, VAB 210, 407-823-3110,**

[http://www.art.ucf.edu/ then select “Programs”](http://www.art.ucf.edu/ then select “Programs”)

**E-mail: animation@ucf.edu**

L. Külmer

**Note:** Although the department maintains a small computer lab for student use, Graphic Design and Animation majors must have continual access to a lap top computer. Contact the department for the minimum hardware and software specifications.

**Admission Requirements**

- Students should complete ART 2201C and ART 2300C before applying to be accepted in the Animation BFA
- Students must submit a satisfactory drawing portfolio to be admitted to FIL 3286C.
- Students must maintain an overall minimum 3.0 GPA in the above courses.
- Applications must include a portfolio of work done in courses, such as drawings, design projects, computer graphics, animation work, and storyboards.

**Note:** Unfortunately, individual reviews are not possible due to the large number of applicants to this program.

- Animation requires submission of a portfolio. Submission deadline for Fall term is March 15.

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog
- Grades below “C” (2.0) in lower level courses do not satisfy major requirements
- Co-op credit cannot be used in the major
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken within the UCF Art and Film programs
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

**1. UCF General Education Program (36 hrs)**

**A. Communication Foundations**

- Select a course from group B.1
- Select ARH 2050 History of Western Art I
- Select ARH 2051 History of Western Art II

**B. Cultural and Historical Foundations**

- Select a course from group B.1
- Select ARH 2050 History of Western Art I
- Select ARH 2051 History of Western Art II

**C. Mathematical Foundations**

- Select MGF 1106 Finite Mathematics
  (may substitute a higher level math)
- Select CGS 1060C Intro to Computer Sci

**D. Social Foundations**

- Select MGF 1106 Finite Mathematics
  (may substitute a higher level math)
- Select CGS 1060C Intro to Computer Sci

**E. Science Foundations**

- Select MGF 1106 Finite Mathematics
  (may substitute a higher level math)
- Select CGS 1060C Intro to Computer Sci

**2. Common Program Prerequisites (18 hrs)**

**ART 2201C** Design Fundamentals 2-D
**ART 2202C** Design Fundamentals 3-D
**ART 2300C** Drawing Fundamentals I
**ART 2301C** Drawing Fundamentals II
**GRA 2101C** Intro to Comp Art
**ART 2820** Art as Interface
**ART 2203C*** Design Fundamentals 3-D
**ART 2201C** Design Fundamentals 2-D
**ART 2300C** Drawing Fundamentals I
**ART 2301C** Drawing Fundamentals II
**ART 2050** The History of Western Art I
**ART 2051** The History of Western Art II
**GRA 2101C** Intro to Computer Art
**ART 2XXX-4XXX** any ART prefix, studio, media courses

* See Transfer Notes for possible substitutes

**3. Core Requirements (12 hrs)**

**ART 2820** Art as Interface
**ART 2300C** Drawing Fundamentals I
**ART 2301C** Drawing Fundamentals II
**ART 2050** The History of Western Art I
**ART 2051** The History of Western Art II
**GRA 2101C** Intro to Computer Art
**ART 2XXX-4XXX** any ART prefix, studio, media courses

**4. Animation Upper Division Courses (18 hrs)**

**ART 3643C** Digital Effects and Compositing
**FIL 3286C** Introduction to Animation
**FIL 3287C** Intermediate Animation
**FIL 3410** History of Animated Films
**FIL 4286C** Advanced Animation
**FIL 4289C** Animation Workshop

*Workshops may be repeated

**5. Elective in Art (15 hrs)**

Select five courses; two of which be lower division
Select from at least three of the following areas, excluding the area of specialization:

- Ceramics, Drawing, Graphic Design, Illustration, Painting, Photography, Printmaking, Sculpture, and Special Topics Studio Courses.

**6. Departmental Exit Requirements**

- **ART 4971 Thesis**
- **Course from group B.1**
- **Select ARH 2050 History of Western Art I**
- **Select ARH 2051 History of Western Art II**
- **Select MGF 1106 Finite Mathematics**
  (may substitute a higher level math)
- **Select CGS 1060C Intro to Computer Sci**

**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 hours

**Related Programs:** Art, Art Education, Art History, Film
### UCF Degree Programs

#### Production/Screen writing, Radio/TV

#### Related Minors: Art, Digital Media, Film

### Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

### Acceptable Substitutes
for common program prerequisites if taken prior to transferring to UCF:
- ART 2203C*: A student may substitute ART 2202C, prior to transferring to UCF.
- GRA 2101C*: A student may substitute any three hour media course; however, GRA 2101C is a prerequisite for subsequent art courses and will be needed 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

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 2501 His of West Art I</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>HUM 2211* req# 1B1-GEP</td>
<td>3</td>
</tr>
<tr>
<td>MGF 1106* req# 1C1-GEP</td>
<td>3</td>
</tr>
<tr>
<td>ART 2200 Art as Interface</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Sophomore Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 1000* req# 1A3-GEP</td>
<td>3</td>
</tr>
<tr>
<td>POS 2041* req# 1D1-GEP</td>
<td>3</td>
</tr>
<tr>
<td>ART 2203C Design Fund I 3 D</td>
<td>3</td>
</tr>
<tr>
<td>ART 2820 Art as Interface</td>
<td>3</td>
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#### Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>ARH 3161* req# 3-Core</td>
<td>3</td>
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<tr>
<td>GRA 3151C* req# 3-Core</td>
<td>3</td>
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<tr>
<td>ART 3643C Dig Effects Compst</td>
<td>3</td>
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<tr>
<td>SPN 1120* req# Lang/Elect</td>
<td>4</td>
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#### Senior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>ARH 2500 His of West Art</td>
<td>3</td>
</tr>
<tr>
<td>FIL 4280C Advanced Animation</td>
<td>3</td>
</tr>
<tr>
<td>PGY 3410C* req# 5-ResEl</td>
<td>3</td>
</tr>
<tr>
<td>Elective* Check restrictions</td>
<td>4</td>
</tr>
</tbody>
</table>

### ART - HISTORY TRACK (B.A.)

#### College of Arts and Sciences

#### Art Department, VAB 117, 407-823-2676

#### http://www.art.ucf.edu/

#### E-mail: art@ucf.edu

J. Chavda, 407-823-2676

#### Admission Requirements

- **none**

#### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below "C" (2.0) in lower level courses do not satisfy major requirements.
- Co-op credit cannot be used in the major.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Art. Nine of these must be in an area of ARH specialization.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program (36 hrs)

- **A. Communication Foundations**
  - 9 hrs
- **B. Cultural and Historical Foundations**
  - Take a course from group 1
  - Select ARH 2050 History of Western Art I 3 hrs
  - Select ARH 2051 History of Western Art II 3 hrs
- **C. Mathematical Foundations**
  - Select MGF 1106 Finite Math (may substitute a higher level math) 3 hrs
  - Prefe STA 1060C Statistics Using Excel 3 hrs

### 2. Common Program Prerequisites (6 hrs)

- **ART 2201C** Design Fundamentals 2-D 3 hrs
- **ART 2300C** Drawing Fundamentals I 3 hrs
- **ARH 2050** History of Western Art I 3 hrs
- **ARH 2051** History of Western Art II 3 hrs
- **XXX 1120, 1121** Foreign Language or Proficiency 0-8 hrs

### 3. Core Requirements (21 hrs)

- **ART 2820** Art as Interface 3 hrs
- **ARH 2501** History of Western Art I GEP 3 hrs
- **ART 3332C* req# 5-ResEl** 3 hrs
- **ENC 3311** Advanced Expository Writing 3 hrs

### 4. Restricted Electives (18 hrs)

- **a. One Non-Western Art History Course:** 3 hrs
  - ARH 3520 African Art
  - ARH 4350 Nineteenth Century Art 3 hrs
  - ARH 4450 Twentieth Century Art 3 hrs
- **b. One of the following courses:** 3 hrs
  - ARH 4200 Medieval Art
  - ARH 4350 Baroque Art
  - ARH 4892 Women in Art
- **c. Select 12 additional hours from following:** 12 hrs
  - ARH 3711 History of Photography I
  - ARH 3710 History of Photography II
  - ARH 3720 History of Prints
  - ARH 4170 Greek and Roman Art
  - ARH 4350 Baroque Art
  - ARH 4655 MesoAmerican Art
  - ARH 4892 Women in Art
  - ARH 5987 Adv. Seminar in Art History

### 5. Departmental Exit Requirements (4 hrs)

- **ARH 4912** Senior Thesis 3 hrs
- **ARH 4906** Comprehensive Exam 1 hr

### 6. Foreign Language Requirements (0-11 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. German, French or Italian preferred, although other languages are acceptable with prior consent of advisor. Standardized examinations for foreign languages may be used to meet the requirement.

#### 7. Electives (variable)

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

#### 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**
### 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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</thead>
<tbody>
<tr>
<td>ARH 2050 His of West Art I</td>
<td>ARH 2051 His of West Art II</td>
</tr>
<tr>
<td>ENC 1101 Composition I</td>
<td>ENC 1102 Composition II</td>
</tr>
<tr>
<td>HUM 2211* req# 1B1-GEP</td>
<td>STA 1060C Stats Using Excel</td>
</tr>
<tr>
<td>MGF 1106* req# 1C1-GEP</td>
<td>ARH 2500 His of West Art II</td>
</tr>
<tr>
<td>ART 2820 Art as Interface</td>
<td>Elective* Check restrictions</td>
</tr>
</tbody>
</table>

### Sophomore Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>COM 1000* req# 1A3-GEP</td>
<td>ART 2000* req# 1D2-GEP</td>
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<td>POS 2041* req# 1D1-GEP</td>
<td>BSC 1005* req# 1E2-GEP</td>
</tr>
<tr>
<td>ART 2201C Design Fund 2 D</td>
<td>CHM 1020* req# 1E1-GEP</td>
</tr>
<tr>
<td>ART 2300C Drawing Fund I</td>
<td>ARH 4545* req# 4E-ResEl</td>
</tr>
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<td>ENC 3311 Adv Exp Writing</td>
<td>SPN 1120* req# Lang/Elect 4</td>
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### Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>ARH 4310 Italian Renais Art</td>
<td>ARH 4340 19th Century Art</td>
</tr>
<tr>
<td>ARH 4450 20th Century Art</td>
<td>ARH 4800 Thry Crit of Vis</td>
</tr>
<tr>
<td>ARH 3710* req# 4c-ResEl</td>
<td>ARH 3711* req# 4c-ResEl</td>
</tr>
<tr>
<td>ARH 4650* req# 4c-ResEl</td>
<td>Elective* Check restrictions</td>
</tr>
<tr>
<td>SPN 1121* req# Lang/Elect</td>
<td>SPN 2230* req# Lang/Elect</td>
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### Senior Year

<table>
<thead>
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<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>ARH 4350* req# 4b-ResEl</td>
<td>ARH 4170* req# 4c-ResEl</td>
</tr>
<tr>
<td>ARH 4912 Senior Thesis</td>
<td>ARH 4960 Comprehensive exam</td>
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<td>Elective* Check restrictions</td>
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<td>Elective* Check restrictions</td>
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<tr>
<td>Elective* Check restrictions</td>
<td>Elective* Check restrictions</td>
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</tbody>
</table>

### ART - STUDIO TRACK (B.A.)

College of Arts and Sciences

**Art Department VAB 117, 407-823-2676**


**E-mail:** art@ucf.edu

J. Chavda, 407-823-2676

**Note:** Although the department maintains a small computer lab for student use, Graphic Design and Animation majors must have continual access to a lap top computer. Contact the department for the minimum hardware and software specifications.

### Continuation Requirements

- All junior level students in this program must satisfactorily complete the mandatory portfolio review before enrolling in upper division courses. The Spring review takes place the first week of March. The Fall review takes place the first week of October. They must also have maintained at least a 2.5 overall GPA in all studio classes and at least a 2.5 GPA in ART 2201C and ART 2203C (Design Fundamentals) prior to their portfolio review.
- Students unable to satisfy the above requirements may continue in the Art Department in the Art History track.
- A second portfolio is required for the Graphic Design Specialization. Deadline for application is the first week of March prior to beginning the Fall of the Junior year

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- See Transfer Notes for possible substitutes

---

### UCF Degree Programs

**1. UCF General Education Program**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>3</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>3</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6</td>
</tr>
</tbody>
</table>

**2. Common Program Prerequisites**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2210C Design Fundamentals 2-D</td>
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</tr>
<tr>
<td>ART 2230C Design Fundamentals 3-D</td>
<td>3</td>
</tr>
<tr>
<td>ART 2300C Drawing Fundamentals II</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2050 The History of Western Art I</td>
<td>3</td>
</tr>
<tr>
<td>ARH 3951 The History of Western Art II</td>
<td>3</td>
</tr>
<tr>
<td>GRA 2101C Intro to Computer Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 2XXX-4XXX any ART prefix, studio or media course</td>
<td>3</td>
</tr>
</tbody>
</table>

**3. Core**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2820 Art As Interface</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2500 History of Non-Western Art</td>
<td>3</td>
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</table>

**4. Restricted Electives**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specialization: Select one upper division course from at least three areas: (classes with an asterisk may be repeated for credit)</td>
<td></td>
</tr>
<tr>
<td>Art History (any upper level ARH courses)</td>
<td></td>
</tr>
<tr>
<td>Ceramics (ART 3760C, ART 4783C*)</td>
<td></td>
</tr>
<tr>
<td>Drawing and Printmaking (ART 332C, ART 4320C*, ART 4402C*)</td>
<td></td>
</tr>
<tr>
<td>Illustration (GRA 3151C, GRA 4154C*)</td>
<td></td>
</tr>
<tr>
<td>Painting (ART 3504C, ART 4505C*)</td>
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</tr>
<tr>
<td>Photography (PGY 2401C, PGY 4420C*, PGY 4440C)</td>
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<tr>
<td>Sculpture (ART 2701C, ART 4710C*)</td>
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</tbody>
</table>

**5. Departmental Exit Requirement**

- Achieve at least a “C” GPA (2.0) in courses within the major
- Computer Competency met by STA 1060C or GRA 2101C

**6. Foreign Language Requirements**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0-8 hrs)</td>
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</tbody>
</table>

**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**

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 Forc...
## UCF Degree Programs

- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### Total Semester Hours Required

**120 hours**

### Related Programs:

- Art History, Studio Art (BFA), Art Education, Animation, Digital Media

### Related Minors:

- Partners in Visual Art Education, Digital Media

### Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

### Acceptable Substitutes

- Substitutions for common program prerequisites if taken prior to transferring to UCF:
  - **ART 2203C:** may substitute 3 hours of ART 2202
  - **GRA 2101C:** may substitute 3 hours of any multimedia 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 alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

#### Freshmen Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 2050 His of West Art I</td>
<td>ARH 2051 His of West Art II</td>
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<tr>
<td>ENC 1101 Composition I</td>
<td>ENC 1102 Composition II</td>
</tr>
<tr>
<td>HUM 2211* req# 1B1-GEP</td>
<td>STA 1060C Stat Using Excel</td>
</tr>
<tr>
<td>MGF 1105* req# 1C1-GEP</td>
<td>ART 2201C Design Fund II D</td>
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<tr>
<td>ART 2820 Art as Interface</td>
<td>Elective* Check restrictions</td>
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<table>
<thead>
<tr>
<th>Sophomore Year</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
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<td>COM 1000* req# 1A3-GEP</td>
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<tr>
<td>POS 2041* req# 1D1-GEP</td>
</tr>
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<td>ART 2203C Design Fund 3 D</td>
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<tr>
<td>GRA 2101C Intro to Comp Art</td>
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<table>
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<tr>
<th>Junior Year</th>
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<tbody>
<tr>
<td>Fall</td>
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<tr>
<td>ART 3332C* req# 4-ResElect</td>
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<tr>
<td>GRA 3151C* req# 4-ResElect</td>
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<tr>
<td>Elective* Check restrictions</td>
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<td>Elective* Check restrictions</td>
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<td>SPN 1120* req# Lang/Elect</td>
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<table>
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<tr>
<th>Senior Year</th>
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<tbody>
<tr>
<td>Fall</td>
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<tr>
<td>ARH 4300* req# 4-ResElect</td>
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<tr>
<td>ART 4200C* req# 4-ResElect</td>
</tr>
<tr>
<td>PGC 3140C* req# 4-ResElect</td>
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<tr>
<td>Elective* Check restrictions</td>
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<tr>
<td>Elective* Check restrictions</td>
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</tbody>
</table>

### ART EDUCATION (B.S.)

**College of Education**

**Department of Teaching and Learning Principles**

**ED 209**

[http://pegasus.cc.ucf.edu/~arted](http://pegasus.cc.ucf.edu/~arted)

**Program Coordinator:** Thomas Brewer

**ED 206-J, 407-823-3714**

**E-mail:** tbrewer@mail.ucf.edu

**Admission Requirements**

- Complete the University General Education requirements or its equivalent, (i.e. an AA degree from an approved Florida community college or state university)
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

### Degree Requirements

- Students should see an advisor

#### 1. UCF General Education Program

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
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<td>A. Communication Foundations</td>
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<tr>
<td>ENC 1101</td>
<td>Composition I</td>
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<tr>
<td>ENC 1102</td>
<td>Composition II</td>
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<tr>
<td>SPC 1600</td>
<td>Fundamentals of Oral Communication</td>
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<tr>
<td>B. Cultural-Historical Foundations</td>
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<tr>
<td>AMH 2010</td>
<td>U.S. History 1492-1877</td>
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<tr>
<td>AMH 2020</td>
<td>U.S. History 1877-Present</td>
</tr>
<tr>
<td>PHI 2010</td>
<td>Introduction to Philosophy</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>(6 hrs)</td>
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<tr>
<td>MGF 1106</td>
<td>Finite Mathematics</td>
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<tr>
<td>Select one:</td>
<td></td>
</tr>
<tr>
<td>STA 1060C</td>
<td>Basic Statistics using MS Excel or</td>
</tr>
<tr>
<td>STA 2014C</td>
<td>Principles of Statistics</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>(6 hrs)</td>
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<td>POS 2041</td>
<td>American National Government</td>
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<td>PSY 2012</td>
<td>General Psychology</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>(6 hrs)</td>
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<tr>
<td>PSC 1121</td>
<td>Physical Science</td>
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<td>Select one:</td>
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<tr>
<td>ANT 2511</td>
<td>The Human Species or</td>
</tr>
<tr>
<td>BSC 1005</td>
<td>Biological Principles</td>
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**Note:** See laboratory component under Section 2.

#### 2. Common Program Prerequisites

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>A. Communications</td>
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<tr>
<td>ENC 1101</td>
<td>Composition I</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>Composition II</td>
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<tr>
<td>SPC 1600</td>
<td>Fundamentals of Oral Communication</td>
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<tr>
<td>B. Humanities</td>
<td>(6 hrs)</td>
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<td>PHI 2010</td>
<td>Introduction to Philosophy</td>
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<td>ARH 2050</td>
<td>History of Western Art I</td>
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<tr>
<td>C. Mathematics</td>
<td>(9 hrs)</td>
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<td>College Algebra</td>
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<tr>
<td>MGF 1106</td>
<td>Finite Mathematics</td>
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<tr>
<td>STA 1060C</td>
<td>Basic Statistics using MS Excel or</td>
</tr>
<tr>
<td>STA 2014C</td>
<td>Principles of Statistics</td>
</tr>
<tr>
<td>D. Social Science/History</td>
<td>(12 hrs)</td>
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<td>U.S. History 1492-1877</td>
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<tr>
<td>AMH 2020</td>
<td>U.S. History 1877-Present</td>
</tr>
<tr>
<td>POS 2041</td>
<td>American National Government</td>
</tr>
<tr>
<td>PSY 2012</td>
<td>General Psychology</td>
</tr>
<tr>
<td>E. Science</td>
<td>(9 hrs + lab)</td>
</tr>
<tr>
<td>PSC 1121</td>
<td>Physical Science</td>
</tr>
<tr>
<td>Select one of the following (per GEP)</td>
<td></td>
</tr>
<tr>
<td>ANT 2511</td>
<td>The Human Species or</td>
</tr>
<tr>
<td>BSC 1005</td>
<td>Biological Principles</td>
</tr>
<tr>
<td>Select one:</td>
<td></td>
</tr>
<tr>
<td>AST 2002</td>
<td>Astronomy or</td>
</tr>
<tr>
<td>GEO 1200</td>
<td>Physical Geography or</td>
</tr>
<tr>
<td>GLY 1030</td>
<td>Geology and its Applications</td>
</tr>
<tr>
<td>Select one associated science lab:</td>
<td></td>
</tr>
<tr>
<td>BSC1005L</td>
<td>Biological Principles Laboratory or</td>
</tr>
<tr>
<td>PSS 111L</td>
<td>Physical Science Laboratory</td>
</tr>
<tr>
<td>F. Education Courses</td>
<td>(9 hrs)</td>
</tr>
<tr>
<td>EDF 2050</td>
<td>Introduction to Education</td>
</tr>
<tr>
<td>EDG 2701</td>
<td>Teaching Diverse Populations</td>
</tr>
<tr>
<td>EME 2040</td>
<td>Technology for Educators</td>
</tr>
<tr>
<td>G. Diversity Courses</td>
<td></td>
</tr>
<tr>
<td>H. Other Program Prerequisites</td>
<td>(24 hrs)</td>
</tr>
<tr>
<td>*ARH 2051</td>
<td>History of Western Art II</td>
</tr>
<tr>
<td>*ART 2201C</td>
<td>Designs Fundamentals I</td>
</tr>
<tr>
<td>*ART 2202C</td>
<td>Designs Fundamentals II</td>
</tr>
<tr>
<td>*ART 2300C</td>
<td>Drawing Fundamentals I</td>
</tr>
<tr>
<td>*ART 2301C</td>
<td>Drawing Fundamentals II</td>
</tr>
<tr>
<td>*GRA 2101C</td>
<td>Intro to Computer Graphics</td>
</tr>
<tr>
<td>ART 2754C</td>
<td>Ceramics</td>
</tr>
<tr>
<td>ART 2500C</td>
<td>Painting</td>
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</table>

*Prerequisites for all 3000 and 4000 core and elective ARE and ART courses.

#### 3. Education Core Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDF 4233</td>
<td>Professional Teaching Practices</td>
</tr>
<tr>
<td>EDF 4624</td>
<td>Analysis of Critical Issues in Education</td>
</tr>
<tr>
<td>EDF 4214</td>
<td>Classroom Learning Principles</td>
</tr>
<tr>
<td>TSL 4080</td>
<td>Theory and Practice of Teaching ESL</td>
</tr>
<tr>
<td>Red 4043</td>
<td>Content Reading K-12</td>
</tr>
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</table>

#### 4. Internship I (ESE 3940) (3 hrs)
Program Internship I Prerequisites: EDG 4323 and at least 50% of all required art 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. Core Requirements (9 hrs)
ARE 4356 Teaching Art Appreciation &Criticism 3 hrs
ARE 4351 Teaching Art in the elementary School 3 hrs
ARE 4352 Teaching Art in the Secondary School 3 hrs

6. Restricted Electives (9 hrs)
Any 3000 or 4000 level ART, ARE, ARH, PGY (with advisor’s approval)

7. Internship II (ESE 4943) (12 hrs)
All art courses and all methods courses must be completed before registering for Internship II
See additional requirements listed under College of Education, Office of Clinical Experiences
Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.065

8. Foreign Language Requirements (0-8 hrs)
State University System foreign language admission: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school)

9. Departmental Exit Requirements
Achieve a minimum 2.5 GPA in all courses within the major.
Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements
A 2.0 UCF GPA
60 semester hours earned after CLEP awarded
48 semester hours of upper division credit completed
30 of the last 36 hours of course work must be completed in residency at UCF
25% of course work must be completed in residency at UCF
Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

11. 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 126 hours. 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) Spring (12 hrs)
EDF 2005 3 ARH 2061 3
ENC 1101 3 EDG 2701 3
MGF 1106 3 ENC 1102 3
ARH 2090 3 MAC 1105 3
PSY 2012 3

Summer (6 hrs)
EME 2040 3
SPC 1600 3

Sophomore Year
Fall (15 hrs) Spring (16 hrs)
ANM 2010 3 AMH 2020 3
ART 2201C 3 ART 2303C 3
BSC 1005 3 ART 2300C 3
PHI 2010 3 POS 2041 3
STA 2014C 3 PSC 1121 3
PSC 1121L 1 Summer (3 hrs)
GRA 2101C 3
AST 2002 3

Junior Year
Fall (15 hrs) Spring (15 hrs)
ARE 4356 3 ARE 4352 3
ART 2301C 3 ART 2500C 3
EDF 4214 3 RED 4043 3
EDG 4323 3 Restricted elective
(TAPE)/ART/PGY 3/4XXX 3
TSL 4080 3 Restricted elective
(TAPE)/ART/PGY 3/4XXX 3

Senior Year
Fall (12 hrs) Spring (12 hrs)
ARE 4351 3 ESE 4943 12 hrs
EDF 4603 3 ESE 3940 3
Restricted elective
ARE/ART/PGY 3/4XXX 3

BIOLOGY (B.S.)
College of Arts and Sciences
Biology Department, BL 301, 407-823-2141
http://pegasus.cc.ucf.edu/~biology/
E-mail: biology@ucf.edu
F. Loguidice, 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, 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 of both majors and must take no fewer than 40 semester hours of upper division restricted elective course work appropriate to the combined areas of specialization of the two majors.
■ Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 hours.
■ A minor in Biology will not be awarded to students who expect to complete a degree or who have previously obtained a degree in any Life Science program.

1. UCF General Education Program (39 hrs)
(Note: Certain courses must be selected in the GEP for this major, bringing the total GEP hours to more than 36.)

A. Communication Foundations
Select ENC 1101, ENC 1102 6 hrs
Select SPC 1016 Tech Presentations 3 hrs
B. Cultural and Historical Foundations
Select MAC 2311 Calculus w/ Anal Geometry I 4 hrs
Select STA 2023 Statistical Methods I 3 hrs
C. Mathematical Foundations
D. Social Foundations 6 hrs
E. Science Foundations
Select CHM 2045C Chem Fund I 4 hrs
Select BSC 2010C Biology I 4 hrs

2. Common Program Prerequisites (16 hrs)
BSC 2010C* Biology I GEP
3. Core requirements (21-23 hrs)
   Select one Chemistry sequence
   CHM 2210 Organic Chem. I. and
   CHM 2211 & L Organic Chem. II and lab
   or
   CHM 3120C Analytical Chemistry, and
   CHM 2205 Intro Organic & Biochemistry
   PCB 3044 Ecology
   PCB 3063 Genetics
   PCB 3023 Molecular Cell Biology
   PCB 4883 Population Biol & Evolution

   (Note: Students planning on entering professional or graduate school should take Biochemistry (CHM 4053, 4054) as well as additional Calculus courses. Students are urged to consult their departmental advisor.)

4. Upper Division Restricted Electives (22 hrs)
   - Courses must be selected from the groupings listed below.
   - Student must complete at least one course dealing exclusively with animals (marked a) and one course dealing exclusively with plants (marked b).
   - At least three credit hours from each group must be completed.
   - No more than 12 hours of the upper division restricted electives may be taken outside the Biology Department.
   - Transferred courses must be at a 3000 level or higher, and be evaluated by a departmental advisor, in order to count as an Upper Division Restricted Elective.
   - Courses at the 5000 level are only open to seniors and beginning graduate students.

4.1 Form/Function (minimum of one lecture course)
   - BCH 4053 Biochemistry I
   - BCH 4054 Biochemistry II
   - a BOT 4223C Plant Anatomy
   - b BOT 4303C Plant Kingdom
   - b BOT 4503 Plant Physiology
   - b BSC 4101 History of Biology
   - b PCB 3063L Genetics Laboratory
   - PCB 3233 Immunology
   - PCB 4524 Molecular Biology II
   - a PCB 4723 Animal Physiology
   - b PCB 4863L Population Bio and Evolution Lab
   - PCB 5107C Adv Cell Biology
   - a PCB 5256C Adv Develop Biology
   - a PCB 5556 Conser Genetics
   - b PCB 5665C Human Genetics
   - a ZOO 3713C Comparative Vert Anatomy
   - a ZOO 4603C Embryology/Development
   - a ZOO 4735C Vertebrate Histology

4.2 Environmental (minimum of one lecture course)
   - b BOT 3152C Local Flora
   - b BOT 3800 Ethnobotany
   - b BOT 4156C Florida Wildflowers
   - b BOT 4686C Conservation of Native Plants
   - b BOT 5623C Plant Geography & Ecology
   - b BSC 4312C Marine Biology
   - b PCB 3044L Ecology Laboratory
   - PCB 3442 Florida Aquatic Ecology
   - PCB 4302C Physicochemical Limnology
   - PCB 4303C Biological Limnology
   - b PCB 5045C Conservation Biology
   - PCB 5328C Landscape Ecology
   - PCB 5328C Ecosystems of Florida
   - PCB 5485 Models in Ecology
   - a ZOO 4513 Animal Behavior
   - a ZOO 5520 Behavioral Ecology
   - a ZOO 5815 Zoogeography
   - a ZOO 5816 Fishes Management
   - a ZOO 5993L Regro Mgt Zool Env

4.3 Systematic (minimum of one lecture course)
   - b BOT 4713C Plant Taxonomy

b BOT 5454C Terrestrial Cryptogams
a ENY 4004C General Entomology
b PCB 3301C Aquatic Biology
a ZOO 4053C Bio & Ecol of Metazoan Inverts
a ZOO 4310C Vertebrate Evolution & Ecol
a ZOO 5456C Ichthyology
b ZOO 5463C Herpetology
a ZOO 5475C Ornithology
a ZOO 5486C Mammalogy

Additional courses (e.g., BSC 4422L and BSC 5408L) may be used to meet a group requirement with approval of the Curriculum Committee via petition.

5. Departmental Exit Requirements
   - A minimum GPA of 2.0 in all UCF courses taken in the Common Program Prerequisites, the Biology Core and the Upper Division Restricted Electives.
   - To demonstrate Computer Competency students are expected to:
     1) check and maintain their campus electronic mail account
     2) be capable of locating, viewing, and retrieving documents on the World Wide Web.
   - Students will be required to take a comprehensive exam in biology during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring.
   - Biology majors should not take any courses required in the major as a transient student at a community college.

6. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

7. Electives (variable)
   Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements
   Total Semester Hours Required 120 hours
   Related Programs: Molecular and Microbiology, Science Education, Environmental Engineering
   Related Minors: Biology, Molecular and Microbiology

   Transfer Notes:
   - Courses taken at community colleges do not substitute for Upper Division courses.
   - Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

   Acceptable Substitutions:
   - The following substitutions are acceptable for common program prerequisites if taken as part of the AA course work:
     - BSC 2010C & Lab: may use PCB 2010, PCB 2011, PCB 2021, PCB 2131, BSC 1040, or BSC 2012
     - BSC 2011C & Lab: may use ZOO 2010, BOT 2010, BSC 2041, or BOT 1013. However, subsequent Biology courses require either BSC 2011C or both ZOO 2010 and BOT 2010.
     - STA 2223: may use STA 2112, STA 2114C, STA 2023, STA 2024, STA 2321, MAC 2224, MAC 2225, or MAC 3282.
     - However, statistics at or above the level of STA 2223 is required if the major and still must be taken.
     - MAC 2311: may use MAC 2233, MAC 2253 or MAC 2281
     - Physics: Although Common Program Prerequisites permit substituting Organic Chemistry for Physics, both Physics and Organic Chemistry must be taken as part of the Biology degree requirements.
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 restriction. 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
CHM 2045C Chemistry Fund I 4
ENC 1101 Composition I 3
Elective* Check restrictions 3

Spring
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 restriction. 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
CHM 2045C Chemistry Fund I 4
ENC 1101 Composition I 3
Elective* Check restrictions 3

Spring

Sophomore Year
Fall
MAC 2311 Calc Anal Geo I 4
POS 2041* req# 1D1-GEP 3
STA 2023 Stat Methods I 3
CHM 2210* req# 3-C3 3
PCB 3044 Prin of Ecology 3

Spring

Junior Year
Fall
PHY 2053C* req# 2CPP 4
PCB 3023 Mol Cell Biology 3
BOT 4303C* req# 4.1 ResEl 5
Elective* Check restrictions 3

Spring

Senior Year
Fall
HUM 2211* req# 1B1-GEP 3
PSY 2012* req# 1D2-GEP 3
REL 2300* req# 1B3-GEP 3
PCB 4683 Pop Biol Ecology 4
Elective* Check restrictions 3

Spring

BIOLOGY - PREPROFESSIONAL CONCENTRATION (B.S.)

College of Arts and Sciences
Biology Department, BL 301, 407-823-2141
http://pegasus.cc.ucf.edu/~biology/
E-mail: biology@ucf.edu
F. Loguidice, 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 pursing a Biology degree. The following track lists courses that will meet both sets of requirements.

Admission Requirements
- none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- No credit by exam (TSD, Military credit) may be used for the major.
- Notice: Professional schools do not accept AP or IB credit.
- Co-op or internship credit cannot be used in the major.
- No more than four hours of BSC 4422L, Independent Study, Directed Research, or similar types of credit may be applied toward major requirements.
- Departmental Residency Requirement consists of at least 23 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Biology Department.
- Students seeking a double major must satisfy the requirements for both majors and must take no fewer than 40 semester hours of upper division restricted elective course work appropriate to the combined areas of specialization of the two majors.
- Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 hours.
- A minor in Biology will not be awarded to students who expect to complete a degree or who have previously obtained a degree in any Life Science program.

1. UCF General Education Program (39 hrs)
   - Note: Certain courses must be selected in the GEP for this major, bringing the total GEP hours to more than 36.
   - A. Communication Foundations
      - Select ENC 1101, ENC 1102 6 hrs
      - Select SPC 1016 Tech Presentations 3 hrs
   - B. Cultural and Historical Foundations
      - 9 hrs
   - C. Mathematical Foundations
      - Select MAC 2311 Calculus with Analy Geo, or
      - Select STA 2023 3 hrs
   - D. Social Foundations
      - 3 hrs
   - E. Science Foundations
      - Select CHM 2045C Chem Fund I 4 hrs
      - Select BSC 2105C Biology I 4 hrs

2. Common Program Prerequisites (16 hrs)
   - BSC 2010C* Biology I
   - BSC 2011C* Biology II
   - MAC 2311* Calculus w/ Analytic Geometry GEP
   - STA 2023* Statistical Methods I GEP
   - CHM 2045C* Chem Fund I GEP
   - CHM 2046 Fund II & Lab 4 hrs
   - Select one Physics sequence with labs* 8 hrs
     - PHY 2053C College Physics I
     - PHY 2054C College Physics II
     - PHY 2048 & L Physics Engr. & Sci. I & Lab
     - PHY 2049 & L Physics Engr. & Sci. II & Lab
     - *See Transfer Notes for possible substitutes

3. Additional Core requirements (21 hrs)
   - PCB 3044 Ecology 3 hrs
   - Select MAC 2241 Calculus for Life Sciences 4 hrs
   - Select CHM 2210 Organ. Chem. I 3 hrs
   - Select CHM 2211L & L Organic Chem. II & Lab 5 hrs
   - Select PCB 3023 Molecular Cell Biology 3 hrs
   - PCB 4683 Population Biology & Evolution 4 hrs

4. Restricted Electives (Suggested) (22 hrs)
   - Students must complete at least one course dealing exclusively with animals (marked a) and one course dealing exclusively with plants (marked b).
   - No more than 12 hours of the upper division restricted electives may be taken outside the Biology Department.
   - Transferred courses must be at a 3000 level or higher.
   - The following suggestions are appropriate for many professional schools. Consult a departmental advisor and be cognizant of the professional school’s requirements. For complete listing, see Biology B.S. degree program.

4.1 Form/Function (minimum of one lecture course)
   - BCH 4053 Biochemistry 3 hrs
   - BCH 4054 Biochemistry II 3 hrs
   - PCB 3063L Genetics Lab 1 hr
   - PCB 4524 Molecular Biology II 3 hrs
   - PCB 5223 Immunology 3 hrs
   - PCB 5665C Human Genetics 4 hrs
   - a PCB 4723 Animal Physiology 4 hrs
   - a ZOO 3713C Comparative Vert Anatomy 5 hrs
   - a ZOO 4603C Embryology/Development 5 hrs
   - a ZOO 4753C Vertebrate Histology 4 hrs

4.2 Environmental (minimum of one lecture course)
   - a BOT 3800 Ethnobotany 3 hrs

4.3 Systematic (minimum of one lecture course)
   - a MCB 3020C General Microbiology 5 hrs
   - a ZOO 4205C Bio & Ecol of Metazoan Inverts 4 hrs
   - a ZOO 4310C Vertebrate Evolution & Ecol 4 hrs

5. Departmental Exit Requirements
   - A minimum GPA of 2.0 in all UCF courses taken in the Common Program Prerequisites, the Biology Core and the Upper Division Restricted Electives.
   - To demonstrate Computer Competency students are expected to 1) check and maintain their campus electronic mail account and 2) be capable of locating, viewing, and retrieving documents on the World Wide Web.
   - Students will be required to take a comprehensive exam in biolo-
### UCF Degree Programs

**Sophomore Year**
- **Fall**
  - MAC 2311 Calc Anal Geo I
  - PUB 2042* req# 1D1-GEP
  - STA 2023 Stats Methods I
  - CHM 2210 Organic Chm I
  - PCB 3044 Print of Ecology
- **Spring**
  - 4 SPCE 1016 Fund Tech Pracmt 3
  - 3 CHM 2211 Organic Chm II
  - 3 PUB 2043* req# 1D1-GEP
  - 3 STA 2023 Stats Methods II
  - 3 CHM 2210 Organic Chm I

**Junior Year**
- **Fall**
  - HUM 2211* req# 1B1-GEP
  - PHY 2048* req# 2-CPP
  - PCB 3023 Mol Cell Biology
  - ZOO 3713C* req# 4.1-ResEl
  - Elective* Check restrictions 3
- **Spring**
  - 3 MUL 2010* req# 1B2-GEP
  - 1 PHY 2049L* req# 2-CPP
  - 3 PCB 4723* req# 4.1-ResEl-a
  - 5 Elective* Check restrictions

**Senior Year**
- **Fall**
  - PSY 2012* req# 1D2-GEP
  - REL 2300* req# 1B3-GEP
  - PCB 4683 Pop Biol Evol
  - BCH 4053* req# 4.1-ResEl
  - Elective* Check restrictions
- **Spring**
  - 3 MCB 3020C* req# 4.3-ResEl
  - 5 Elective* Check restrictions

### CARDIOPULMONARY SCIENCES (B.S.)

#### College of Health and Public Affairs

**HPA2 210; 407-823-2214**


**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 have completed 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 18 UCF undergraduates students are admitted each Fall semester for the regular Cardiopulmonary Sciences program. Registered Respiratory Therapists (RRT’s) applying for this program's transfer option will be admitted each semester on a space available basis. These individuals have a separate application process and are not counted as part of the regular Cardiopulmonary Sciences class. See transfer notes below.

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions, and the Common Program Prerequisites Requirements before transferring within the Florida Public University/Community College System
- Student should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Cardiopulmonary Sciences Program
- UCF Residency Requirement: 32 hours
- 25% of course work must be completed in residency at UCF
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. **UCF General Education Program** (36 hrs)

   A. Communication Foundations
      - 9 hrs
   B. Cultural Historical Foundations
      - 9 hrs
   C. Mathematical Foundations
      - 6 hrs
   Select MAC 1105
   Select STA 2023
   D. Social Foundations
      - 6 hrs
   E. Science Foundations
      - 6 hrs
   Select BSC 2010C
   Select CHM 1032 and lab

2. **Common Program Prerequisites** (16 hrs)

   - 4 hrs
   - 3 hrs
   - 3 hrs
   - 3 hrs
   - 3 hrs
   - 3 hrs
   - 3 hrs
   - 3 hrs

3. **Core Requirements** (75 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**

5. **Departmental Exit Requirements** (127 hrs)

6. **Electives**

7. **Foreign Language Requirements** (0-8 hrs)

8. **University Minimum Exit Requirements**

   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 32 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required**: 127 hrs

**Related Programs**: Radiologic Sciences, Nursing, Physical Therapy, Health Services Administration, Aging Studies Certificate

**Related Minors**: Health Services Administration, Health Sciences, Molecular Biology & Microbiology, Biology, Chemistry

**Transfer Notes**: The UCF Cardiopulmonary Sciences program maintains an active transfer program open only to Registered Respiratory Therapists (RRT) and registry eligible respiratory therapists (new respiratory care graduates from an accredited respiratory care program). This program allows working respiratory care professionals to attend UCF and gain a baccalaureate degree in Cardiopulmonary Sciences. To facilitate this process transfer-credit by examination is available for Registered Respiratory Therapists for 26 credits of course work. Credit will be awarded by the Cardiopulmonary Sciences faculty when students demonstrate advanced knowledge and competencies beyond the level required for entry into the profession. This knowledge may be demonstrated by successful completion of the two part registry examination given by the National Board for Respiratory Care (NBRC). Only graduates of an accredited institution and program are eligible for the NBRC credentials. Students who successfully complete these requirements will have validated the knowledge and clinical competencies and will be awarded credit in their final semester with grades of “S” recorded in their transcripts.

**Community College Equivalents**

- 3 hrs
- 3 hrs
- 3 hrs
- 4 hrs
- 4 hrs
- 4 hrs
- 4 hrs
- 4 hrs

**Tentative Course Schedule for Entering Freshmen**

**Freshman Year**

<table>
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<tr>
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<tbody>
<tr>
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<tr>
<td>CHM 1032 and lab</td>
<td>MCB 2044</td>
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<tr>
<td>BSC 2015C</td>
<td>MAC 1105</td>
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<tr>
<td>PSY 2012</td>
<td>HUM 2211</td>
</tr>
<tr>
<td>ANT 2000 or SYG 2000</td>
<td>AMH 2010</td>
</tr>
<tr>
<td>HSC 2000</td>
<td>MAC 1114</td>
</tr>
</tbody>
</table>

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### CHEMISTRY (B.S.)

**College of Arts and Sciences**  
Department of Chemistry  
CH 117, 407-823-2246  
http://www.cas.ucf.edu/chemistry  
E-mail: chemistry@ucf.edu

**Admission Requirements**  
- *none*

**Degree Requirements**
- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in 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  
*See Transfer Notes for possible substitutes*

<table>
<thead>
<tr>
<th>Term</th>
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<tbody>
<tr>
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<td>ZOO 3733C</td>
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<td>SPC 1600</td>
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<td>ARH 2051, MUL 2010, THE1020, REL 2300, PHI 2010, LIT 2110, LIT 2120</td>
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#### 2. Common Program Prerequisites  
*See Transfer Notes for possible substitutes*

<table>
<thead>
<tr>
<th>Term</th>
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<tr>
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<td>HSC 3593C</td>
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<td>HSC 4550</td>
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<td>HSC 4148</td>
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#### Summer  
*See Transfer Notes for possible substitutes*

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#### Senior Year  
*See Transfer Notes for possible substitutes*

<table>
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<tr>
<th>Term</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
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<tr>
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<td>14</td>
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**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.

#### 3. Core requirements  
*See Transfer Notes for possible substitutes*

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
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<td>CHM 221L</td>
<td>Organic Lab Techniques I</td>
</tr>
<tr>
<td>CHM 221L</td>
<td>Organic Lab Techniques II</td>
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<tr>
<td>CHM 3120C</td>
<td>Analytical Chemistry</td>
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<tr>
<td>CHM 4110</td>
<td>Physical Chemistry I</td>
</tr>
<tr>
<td>CHM 3411</td>
<td>Physical Chemistry II</td>
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<tr>
<td>CHM 411L</td>
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<td>CHM 4130C</td>
<td>Adv Analytical Lab Technique</td>
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<td>CHM 4914C</td>
<td>Undergraduate Research Methods</td>
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<td>CHM 4912</td>
<td>Undergraduate Research</td>
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<tr>
<td>CHM 4939L</td>
<td>Chemistry Seminar</td>
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<td>PHY 2048 &amp; L</td>
<td>Physics Engr. &amp; Sci. I &amp; Lab</td>
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<tr>
<td>PHY 2049 &amp; L</td>
<td>Physics Engr. &amp; Sci. II &amp; Lab</td>
</tr>
<tr>
<td>BCH 4063</td>
<td>Biochemistry I</td>
</tr>
<tr>
<td>BCH 4063</td>
<td>Biochemistry II</td>
</tr>
<tr>
<td>PHY 4503</td>
<td>Physics Engr. &amp; Sci. I &amp; Lab</td>
</tr>
</tbody>
</table>

**Directed Elective**  
*See Transfer Notes for possible substitutes*

*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.*

#### 4. Upper Division Restricted Electives  
*See Transfer Notes for possible substitutes*

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BCH 4054</td>
<td>Biochemistry II</td>
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<tr>
<td>CHM 5225</td>
<td>Advanced Organic Chem I</td>
</tr>
<tr>
<td>CHM 4220</td>
<td>Organic Chem III</td>
</tr>
<tr>
<td>CHM 5235</td>
<td>Applied Molec Spectroscopy</td>
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<tr>
<td>CHM 5580</td>
<td>Advanced Physical Chem</td>
</tr>
<tr>
<td>CHM 5450</td>
<td>Polymer Chemistry</td>
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<tr>
<td>CHM 5451C</td>
<td>Techniques in Polymer Chemistry</td>
</tr>
<tr>
<td>CHS 4200</td>
<td>Concepts in Industrial Chem</td>
</tr>
<tr>
<td>CHS 4615</td>
<td>Environmental Chem</td>
</tr>
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</table>

#### 5. Directed Elective  
*See Transfer Notes for possible substitutes*

*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 4914, 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 at least a satisfactory score on the exam.
- Students are required to submit an undergraduate research report for evaluation no later than three weeks prior to the last day of regularly scheduled classes in the semester they intend to graduate. The report must meet or exceed departmental requirements established for the report.
- Computer Competency met by STA 1060C, a computer science course, or by departmental assessment.
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF.

#### 7. Foreign Language Requirements  
*See Transfer Notes for possible substitutes*

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Language</th>
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<tbody>
<tr>
<td>Course Code</td>
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<tr>
<td>PHY 2049 &amp; L</td>
<td>Physics Engr. &amp; Sci. I &amp; Lab</td>
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<tr>
<td>PHY 2049 &amp; L</td>
<td>Physics Engr. &amp; Sci. II &amp; Lab</td>
</tr>
<tr>
<td>BCH 4063</td>
<td>Biochemistry I</td>
</tr>
<tr>
<td>BCH 4063</td>
<td>Biochemistry II</td>
</tr>
<tr>
<td>PHY 4503</td>
<td>Physics Engr. &amp; Sci. I &amp; Lab</td>
</tr>
</tbody>
</table>

**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.
# 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>Summer</th>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>Chem test See catalog 0</td>
<td>MAC 2313 Calc Anal Geo I</td>
<td>ENC 1102 Composition II</td>
</tr>
<tr>
<td>Math test See catalog 0</td>
<td>MAC 2312 Calc Anal Geo II</td>
<td>ENC 1101 Composition I</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>PHY 2048 Phy for Eng Sci I</td>
<td>PHY 2049L Phy for Eng Sci II</td>
<td>PHI 2010* req# 1B3-GEP</td>
</tr>
<tr>
<td>STA 1060C Stat Using Excel</td>
<td>PHY 2010L req# 1B3-GEP</td>
<td>MAP 2302 Differential Equations</td>
</tr>
<tr>
<td>CHM 2210 Organic Chem I</td>
<td>CHM 2211 Organic Chem II</td>
<td>CHM 3410 Physical Chm I</td>
</tr>
<tr>
<td>MAC 2313 Calc Anal Geo III</td>
<td>MAC 2312 Calc Anal Geo II</td>
<td>MAC 2313 Calc Anal Geo II</td>
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<thead>
<tr>
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<th>Fall</th>
<th>Spring</th>
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<tr>
<td>POS 2041* req# 1D1-GEP</td>
<td>CHM 3411 Physical Chm II</td>
<td>CHM 2046 Chemistry Fundamentals II</td>
</tr>
<tr>
<td>BCH 4053 Biochemistry I</td>
<td>CHM 3411L Physical Chm L</td>
<td>CINEMA STUDIES TRACK in FILM</td>
</tr>
<tr>
<td>CHM 3120C Analy Chemistry</td>
<td>CHM 4130C Adv Analy L Tech</td>
<td>See Film - Cinema Studies Track</td>
</tr>
<tr>
<td>CHM 3212L Organic L Tech II</td>
<td>CHM 4610 Inorg Chemistry</td>
<td>CINEMA STUDIES TRACK in FILM</td>
</tr>
<tr>
<td>CHM 3410 Physical Chm I</td>
<td>BCH 4054* req# 1D2-GEP</td>
<td>See Film - Cinema Studies Track</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Senior Year</th>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>HUM 2211* req# 1B1-GEP</td>
<td>MUL 2010* req# 1B2-GEP</td>
<td>HUM 2211* req# 1B1-GEP</td>
</tr>
<tr>
<td>CHM 4610L Inorg Chemistry L</td>
<td>SPC 1016 Tech Presentations</td>
<td>MUL 2010* req# 1B2-GEP</td>
</tr>
<tr>
<td>CHM 4914C undergrad Res Meth</td>
<td>CHM 4912 Research</td>
<td>CHM 2211* req# 1B1-GEP</td>
</tr>
<tr>
<td>CHM 4220* req# 4-ResEl</td>
<td>CHM 4930 Undergrad Chm Sem</td>
<td>EGN 1006C Intro to the Engineering Profession</td>
</tr>
<tr>
<td>PCB 3062* req 5-Del</td>
<td>Elective* Check restrictions</td>
<td>EGN 1006C Intro to the Engineering Profession</td>
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</table>

## Notes:
- 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).
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UNIVERSITY OF CENTRAL FLORIDA

ENGINEERING CONCENTRATION (B.S.C.E.)

College of Engineering and Computer Science
Civil & Environmental Engineering Department (CEE),
ENG2 211, 407-823 2841, Fax: 407-823-3315,
http://www.cee.ucf.edu
Undergraduate Coordinator and Academic Advisor: Carol Ann Pohl,
E-mail: cpohl@mail.ucf.edu
Associate Chair and Construction Program Director: Amir A. Olofua,
E-mail: aoifo@yahoo.com

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 (38 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 must complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations
   9 hrs
   1. Take ENC 1101
   2. Take ENC 1102
   3. Take SPC 1016

B. Cultural and Historical Foundations
   9 hrs

CIVIL ENGINEERING - CONSTRUCTION

TOTAL SEMESTER HOURS REQUIRED: 128 hrs

Related Programs: Environmental Engineering

Related Minors: Mathematics.

Transfer Notes:
Courses taken from Community Colleges do not substitute for Upper Division Courses.

Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Civil Engineering - 128 semester hours required

FIRST YEAR

Fall 14 hrs

Spring 15 hrs

*ENC 1101 English Comp I 3
*MAC 2311 Calc w/Analy Geo I 4
*SPC 1016 Tech Presentations 3
*ANT/PSY/SYG or *GEO/GLY/BSC 3

SECOND YEAR

Fall 16 hrs

Spring 16 hrs

*MAC 2313 Calc w/Analy Geo III 4
*MAC 2045 Chemistry Fund II 4
*PHY 2048/L Phys Eng I wlab 4

THIRD YEAR

Fall 16 hrs

Spring 12 hrs

*ENC 1102 English Comp II 3
*CWR 4101C Geotechnical Engr 3
*ANT/PSY/SYG or *GEO/GLY/BSC 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.

CIVIL ENGINEERING - CONSTRUCTION

ENGINEERING CONCENTRATION (B.S.C.E.)
2. Common Program Prerequisites (CPP’s) (19 hrs)

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. **Note:** MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHM 2045/45L Chemistry Fundamentals I with Lab 4 hrs
MAC 2311 Calculus w/Analytic Geometry I GEP
MAC 2312 Calculus w/Analytic Geometry II 4 hrs
MAC 2313 Calculus w/Analytic Geometry III 4 hrs
MAP 2302 Differential Equations 3 hrs
PHY 2048/48L Physics for Engineers & Scientists I 4 hrs
PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
ENC 1101 Composition I GEP
ENC 1102 Composition II GEP
Humanities Courses GEP
Social Science Courses GEP
Humanities or Social Sciences GEP

3. Courses Required for the Major (62 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum of 2.25 GPA in completing these courses, together with the technical elective courses listed in item 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 3022 Probability & Statistics for Engineers GEP
CCE 4813 Mech & Elec Sys for Buildings 4 hrs
CCE 4402 Construction Equip & Productivity 3 hrs
EGN 3366 Struc & Prop of Materials 3 hrs
CCE 4404 Construction Methods 3 hrs
CCE 4034 Construction Estimating & Scheduling 3 hrs
CCE 4003 Intro to the Construction Industry 3 hrs
EGN 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
AGC 2071 Managerial Accounting 3 hrs
SUR 2101C Surveying 3 hrs
TTE 4044 Transportation Engineering 4 hrs

4. Approved Engineering Science Electives (3 hrs)

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 CHM 3343 (Thermodynamics) or EGN 3373 (Principles of Elect Engr) as the technical elective. Other courses from the list of approved technical electives may be used with the approval of the department advisor. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)

- CCE 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 (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: Environmental Engineering.

Related Minors: Mathematics.

Transfer Notes:

- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Civil Engineering - Construction Engineering Option

128 semester hours required

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 hrs1</td>
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<tr>
<td>ENC 1101 English Comp I 3</td>
<td>ENC 1102 English Comp II 3</td>
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<tr>
<td>MAC 2311 Calcl w/Analy Geo I 4</td>
<td>MAC 2312 Calcl w/Analy Geo II 4</td>
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<tr>
<td>SPC 1016 Tech Presentations 3</td>
<td>PHY 2048/48L Phys Engr I w/lab 4</td>
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<tr>
<td>EGC 2013 Microeconomics or</td>
<td>EGC 2023 Microeconomics</td>
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<tr>
<td>MAC 2311 Calc w/Analy Geo I 4</td>
<td>MAC 2312 Calc w/Analy Geo II 4</td>
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<td>MAC 2312 Calc w/Analy Geo II 4</td>
<td>MAP 2302 Diff Equations 3</td>
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<td>MAC 2313 Calc w/Analy Geo III 4</td>
<td>CCM 3343 Structural Analysis I 4</td>
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<td>PHY 2049/49L Phys for Engr I 4</td>
<td>CES 4100C Structural Analysis II 4</td>
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<td>ENC 1101 Comp I 4</td>
<td>CES 4702 Reinforced Concrete Structures 3</td>
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<td>ENC 1102 Comp II 4</td>
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<td>Humanities Courses GEP</td>
<td>*Cultural/Historical Elective 3</td>
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<tr>
<td>STA 3022 Prob &amp; Stat for Engineers GEP</td>
<td>CWR 3201 Eng Fluid Mchnics 3</td>
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<td>MAC 2311 Calc w/Analy Geo I 4</td>
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<td>CCE 4813 Mech &amp; Elec Bldgs 4</td>
<td>CWR 3201 Eng Fluid Mchnics 3</td>
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<table>
<thead>
<tr>
<th>SECOND YEAR</th>
<th>Fall</th>
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</tr>
</thead>
<tbody>
<tr>
<td>16 hrs1</td>
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</tr>
<tr>
<td>ENC 1101 English Comp I 3</td>
<td>ENC 1102 English Comp II 3</td>
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</tr>
<tr>
<td>MAC 2311 Calcl w/Analy Geo I 4</td>
<td>MAC 2312 Calcl w/Analy Geo II 4</td>
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<tr>
<td>SPC 1016 Tech Presentations 3</td>
<td>PHY 2048/48L Phys Engr I w/lab 4</td>
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<td>ENC 3310 Engr Anal - Statics 3</td>
<td>ENC 3303 Eng Econ Anal 2</td>
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<td>EGN 3365 Intro to Engr Prof 1</td>
<td>EGN 3313 Mech of Materials 3</td>
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<td>STA 3022 Prob &amp; Stat for Engineers GEP</td>
<td>CWR 3201 Eng Fluid Mchnics 3</td>
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<tr>
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<td>15 hrs1</td>
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<td>EGN 3321 Engr Anal-Dynamics 3</td>
<td>Engineering Science Elective2 3</td>
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<td>CCE 4003 Engr Constr. 3</td>
<td>CCE 4004 Construct Design 3</td>
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<td>CES 4100C Structural Analysis I 4</td>
<td>CCE 4004 Construct Design 3</td>
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<td>SUR 2101C Surveying 3</td>
<td>CCE 4004 Construct Design 3</td>
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<td>EGN 3365 Struc &amp; Prop of Mat 3</td>
<td>CCE 4004 Construct Design 3</td>
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<td>*Cultural/Historical Elective 3</td>
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<td>TTE 4044 Transportation Eng 4</td>
<td>CCE 4810C Constr Design Project 4</td>
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</tr>
<tr>
<td>CCE 4034 Constr Est &amp; Sched 3</td>
<td>CCE 4042 Constr Equip &amp; Prod 3</td>
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<tr>
<td>CEG 4101C Geotechnical Engr 3</td>
<td>CEG 4801C Geotech Engr Design 3</td>
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<tr>
<td>CCE 4813 Mech &amp; Elec Bldgs 3</td>
<td>AGC 2071 Prin Mgrl Accounting 3</td>
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</table>
Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Engineering Science Elective may be satisfied by taking either EGN 3343 or EGN 3373, other courses must be approved by Program Director.
3. Either CES 4605 Steel Structures or CES 4702 Reinforced Concrete Structures is required for all students.

COMMUNICATIVE DISORDERS (B.A., B.S.)
College of Health and Public Affairs, HPA2 101
http://www.cooha.ucf.edu/comdis/
Chair: R. Jane Lieberman, Phone: 407-823-4798
Undergraduate Coordinator: Jamie B. Schwartz
E-mail: jschwart@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
      Select STA 2023
   B. Cultural Historical Foundations
      Select one of the listed choices (ECO 2013, ECO 2023), or POS 2041
   C. Mathematical Foundations
      Select one of the listed choices (ECO 2013, ECO 2023), or STA 2023
   D. Social Foundations
      Select PSY 2012 General Psychology
   E. Science Foundations
      Select one of the listed choices (ECO 2013, ECO 2023), or STA 2023

2. Common Program Prerequisites
   None

3. Core Requirements (60 hrs)
   DEP 2004 Developmental Psychology
   SPA 3471 Communication Disorders in Literature and Media
   SPA 3101 Physiological Bases of Speech and Hearing
   SPA 3112 Basic Phonetics
   SPA 3112L Basic Phonetics Lab
   LIN 3716 Language Development: Birth through 8 yrs
   SPA 3011 Speech Science I: Speech Production
   SPA 3011L Speech Production Lab
   LIN 3717 Language Development: 9 thru 18 yrs
   SPA 3104 Neural Bases of Communication
   SPA 3123 Speech Science II: Speech Perception
   SPA 3123L Speech Perception Lab
   SPA 4476 Speech Disorders Across the Lifespan
   SPA 4032 Audiology
   SPA 4478 Multicultural Aspects: Communications Disorders and Differences
   LIN 4711 Language Analysis
   LIN 4711L Language Analysis Lab
   SPA 4400 Language Disorders Across the Lifespan
   SPA 4321 Aural Habituation-Rehabilitation
   EAB 3703 Principles of Behavior Modification
   EEX 4601 Introduction to Behavior Management
   ECC 4603 Guidance of Young Children
   EDF 3307 Learning Environments and Guidance for Young Children

4. Statistics Requirement (6 hrs)
   STA 2023 Statistical Methods I GEP and
   STA 4163 Statistical Methods II or
   HSA 4701 Introduction to Research in the Health Professions

5. Upper Division Restricted Electives (6 hrs)
   SPA 3472 Guidance of Young Children w/Communicative Disorders
   SPA 4550C Clinical Methods in Communicative Disorders
   SPA 4052L* Undergraduate Clinical Practicum or
   SPA 4948 Community Internship

6. Electives (6 hrs min)
   B.A./B.S. Option.
   - Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year in college.
   - Students pursuing the B.S. degree must complete two upper division health science courses (six credit hours) approved by the Department.

7. Foreign Language Requirements
   Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation. 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 (120 hrs)
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in 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

Freshman Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
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<tbody>
<tr>
<td>15 hrs</td>
<td>15 hrs</td>
<td>15 hrs</td>
<td>15 hrs</td>
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<tr>
<td>ENC 1101</td>
<td>ENC 1102</td>
<td>ECH 1210</td>
<td>ECH 1210</td>
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<td>PSY 2012</td>
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<td>ECH 1210</td>
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<tr>
<td>BSC 1005</td>
<td>ECH 1210</td>
<td>ECH 1210</td>
<td>ECH 1210</td>
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<tr>
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<td>One Course: ARH 2050 or ARH 2051</td>
<td>One Course: ARH 2050 or ARH 2051</td>
<td>One Course: ARH 2050 or ARH 2051</td>
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<tr>
<td>PHI 2010</td>
<td>PHI 2010</td>
<td>PHI 2010</td>
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</tr>
<tr>
<td>3 hrs</td>
<td>3 hrs</td>
<td>3 hrs</td>
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<tr>
<td>10 hrs</td>
<td>10 hrs</td>
<td>10 hrs</td>
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</tr>
<tr>
<td>3 hrs</td>
<td>3 hrs</td>
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<td>3 hrs</td>
</tr>
</tbody>
</table>
**UCF Degree Programs**

**COMPUTER ENGINEERING (B.S.Cp.E.)**

**College of Engineering and Computer Science**  
Department of Electrical and Computer Engineering  
ENGR 407C, 407-823-2786, Fax: 407-823-5835,  
http://www.cpe.ucf.edu

C. S. Bauer Jr., E-Mail: bauer@mail.ucf.edu

**Admission Requirements:**

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

**Degree Requirements**

- Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. **UCF General Education Program for Engineering Students**

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. Take ENC 1101  
2. Take ENC 1102  
3. Prefer SPC 1106

B. Cultural and Historical Foundations  
1. Take MAC 2311, Calculus with Analytic Geometry I, (4 hrs)

**Note:** College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.

2. **Take STA 3023**  
3. Take STA 3032  
4. **Take ECO 2023.**  

E. **Science Foundations**

1. Take PHY 2048/2048L.

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.

**Note:** 1. Take MAC 2311, Calculus with Analytic Geometry I*  
EEL 3306 Semiconductor Devices I  
EEL 3307 Electronics I  
EEL 3342C Intro to Digital Circuits & Systems  
EEL 3657 Linear Control Systems  
EEL 3801C Intro to Computer Engineering  
EEL 4767C Computer System Design I  
EEL 4768C Computer System Design II  
EEL 4781 Computer Comm Networks  
EEL 4851C Engineering Data Structures  
EEL 4882 Engineering System Software  
EEL 4884C Engineering Software Design

5. **Approved Technical Electives**

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**

**Note:** EEL 4914 Senior Design I  
EEL 4915L Senior Design II  
CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. **Foreign Language Requirements**

**Note:** 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**
## UCF Degree Programs

- 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).

### Related Semester Hours Required:
128 hrs

**Related Programs:** Computer Science, Electrical Engineering, Electrical Engineering Technology (Computer Systems Concentration).

**Related Minors:** Information Technology, Computer Science.

**Transfer Notes:**
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

### Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

**Computer Engineering - 128 semester hours required**

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>FALL</th>
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<th>Spring</th>
<th>12 hrs</th>
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<tr>
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<td>3</td>
<td><em>ENC 1102 English Comp I</em></td>
<td>3</td>
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<td><em>ENC 1101 English Comp I</em></td>
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<td>EGN 1007C Intro to Engr</td>
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<td><em>SPC 1016 Tech Presentations</em></td>
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<td><em>MAC 2311 Calc with Analytic Geo I</em></td>
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<td>EGN 1006C Intro to Engr</td>
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<td><em>PHY 2048L Phys for Eng/Sci I</em></td>
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<td><em>Social Foundations I</em></td>
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<td><em>Science Foundations 2</em></td>
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<td><em>MAC 2313 Calc with Analytic Geo I</em></td>
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<tr>
<td><em>MAP 2302 Diff Equations</em></td>
<td>3</td>
<td>EGN 3321 Engr Anal-Dynamics</td>
<td>3</td>
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<tr>
<td><em>PHY 2049 Phys Engr/Sci II</em></td>
<td>3</td>
<td>EGN 3358 Ther-Flds-Ht Tran</td>
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<tr>
<td><em>PHY 2049L Lab Engr/Sci II</em></td>
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<td><em>PHY 3101 Physics for Eng/Sci III</em></td>
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<td>EGN 1344 Chem for Engr</td>
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<td>EEL 1342C Intro Dg Circ/Sys</td>
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<td>EGN 3310 Engr Anal-Statics</td>
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<td>EEL 3801C Intro Cmptr Engr 2</td>
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<td>EGN 3420 Eng Analysis2</td>
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<td>EEL 3004 Electrical Networks</td>
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<td><em>ECO 2013 Macroeconomics</em></td>
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<td>* ECO 2023 Microeconomics*</td>
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<th>THIRD YEAR</th>
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<th>Spring</th>
<th>14 hrs</th>
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<tr>
<td>EEL 3306 Semicond'I Dev I</td>
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<td>EEL 3307C Electronics I</td>
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<tr>
<td>EEL 4851C Eng Data Struc</td>
<td>4</td>
<td>EEL 3657 Linear Cont Sys</td>
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<tr>
<td>STA 3032 Prob/Stats for Engr</td>
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<td>EEL 4767C Cmp Sys Des'n I</td>
<td>4</td>
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<td>EEL 3123 Networks and Systems</td>
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<td>EEL 4892 Engng Sys SN</td>
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<th>Spring</th>
<th>12 hrs</th>
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<tr>
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<tr>
<td>EEL 4884C Engr SW Dsgn</td>
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<td>Approved Technical Elective</td>
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<tr>
<td>EEL 4914 Senior Design I</td>
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<td>EEL 4915L Senior Design II</td>
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<tr>
<td>Approved Technical Elective</td>
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<td>EEL 4781 Cmp Comm/Networks</td>
<td>3</td>
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</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). EGN 1006C and EGN 1007C are required courses for incoming freshmen only.
3. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

### Integrated BS/MS Degree Program

The Computer Engineering program offers the Integrated BS/MS degree to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

### COMPUTER ENGINEERING - SOFTWARE ENGINEERING CONCENTRATION (B.S.Cp.E.)

**College of Engineering and Computer Science**  
C. S. Bauer, Jr., E-Mail: bauer@mail.ucf.edu

### Admission Requirements:

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-year 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.

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<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
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</tr>
<tr>
<td>1. Take ENC 1101</td>
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<td></td>
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<tr>
<td>2. Take ENC 1102</td>
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<td></td>
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<tr>
<td>3. Prefer SPC 1016</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>9 hrs</td>
<td></td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>7 hrs</td>
<td></td>
</tr>
<tr>
<td>1. Take MAC 2311, Calculus with Analytic Geometry I, (4 hrs)</td>
<td></td>
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</tr>
<tr>
<td>Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.</td>
<td></td>
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<tr>
<td>2. Take STA 2023</td>
<td>(3 hrs)</td>
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<tr>
<td>Note: Calculus II is the prerequisite for this course.</td>
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<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
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<tr>
<td>1. Take ECO 2013 or ECO 2023</td>
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<tr>
<td>2. Take ANT 2000, PSY 102, or SYG 2000</td>
<td></td>
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<tr>
<td>E. Science Foundations</td>
<td>7 hrs</td>
<td></td>
</tr>
<tr>
<td>1. Take PHY 2048/48L</td>
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<td></td>
</tr>
</tbody>
</table>

#### 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.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP substitutions, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| CHS 1440 | Fundamentals of Chemistry for Eng | 4 hrs |
| (CHM 2045C/45L will substitute) |
| 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 |
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.

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 3023 Probability & Statistics for Engineers GEP
PHY 3101 Physics for Engineers & Scientists II 3 hrs

4. Courses Required for the Major (45 hrs)
EEL 3004 Electrical Networks 3 hrs
EEL 3123C Networks and Systems 4 hrs
EEL 3306 Semiconductor Devices I 3 hrs
EEL 3307C Electronics I 4 hrs
EEL 3342C Intro to Digital Circuits & Systems 3 hrs
EEL 3657C Control Systems I 3 hrs
EEL 3801C Intro to Computer Engineering 3 hrs
EEL 4767C Computer System Design I 4 hrs
EEL 4768C Computer System Design II 4 hrs
EEL 4781 Computer Comm Networks 3 hrs
EEL 4851C Engineering Data Structures 4 hrs
EEL 4882 Engineering System Software 3 hrs
EEL 4884C Engineering Software Design 4 hrs

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. For those students with a declared interest in Software Engineering, a concentration in this area is available by taking software technical electives, in addition to the required software engineering courses listed in 3.

6. Departmental Graduation Requirements (6 hrs)
- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Graduation Requirements
- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper-division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs


Related Minors: Information Technology, Computer Science.

Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Computer Engineering - Software Engineering Concentration

128 semester hours required

FIRST YEAR
Fall 14 hrs. Spring 15 hrs

*MAC 2311 Calc with Analytic Geo I 4 *MAC 3211 Calc with Analytic Geo III 4

SECOND YEAR
Fall 17 hrs Spring 15 hrs

*MAP 2302 Diff Equations 3 *ENR 3102 Eng Comp I 3
*PHY 2049 Phys Engr/Sci I 3 *PHY 2048/L Phys for Engr/Sci I 3

THIRD YEAR
Fall 14 hrs Spring 14 hrs

EEL 3306 Semiconductor Dev I 3 EEL 3307C Electronics I 4
EEL 4851C Eng Data Struc 4 EEL 4857C Eng Math I 3
STA 3023 Prob/Stats for Engr 3 EEL 4767C Comp Sys Des’n I 4
EEL 3123C Networks and Systems 4 EEL 4882 Engrng Sys S/W 3

FOURTH YEAR
Fall 14 hrs Spring 12 hrs

EEL 4786C Comp Sys Design II 4 *Cult & Hist Foundations 2 3
EEL 4884C Engr SW Design 3 *Cult & Hist Foundations 3 3
EEL 4914 Senior Design I 3 *Cult & Hist Foundations 4 3
Approved software technical elective 3 *Cult & Hist Foundations 5 3

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 107C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

Integrated BS/MS Degree Program
The Computer Engineering program offers the Integrated BS/MS degree to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

COMPUTER SCIENCE (B.S.)

College of Engineering and Computer Science
School of Computer Science
CSB 201
http://www.cs.ucf.edu
E-mail: computersonce@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
UCF Degree Programs

Students must earn at least a 2.0 in each course in 2-6.

Degree Requirements

- Students must earn at least a 2.0 in each course in 2-6.
- Students are required to consult with a departmental advisor and file a plan of study after passing the foundation exam.
- Students must meet a Residency Requirement of at least 24 semester hours of regularly scheduled 3000-5000 level courses taken from Computer Science at UCF.

1. UCF General Education Program

A. Communication Foundations
   - Select ENC 1101, ENC 1102
   - Select ENG 1010

B. Cultural and Historical Foundations
   - Select MAC 2311
   - Select STA 2023 Statistical Methods I

C. Mathematical Foundations
   - Select PHY 2048 & L Physics for Engr & Sci I & Lab
   - Select PHY 2049 Physics for Sci II w/lab

D. Social Foundations
   - Select two science courses designed for majors

E. Science Foundations
   - Select PHY 2048 & L Physics for Sci & Engr
   - Select any science course designed for majors

2. Common Program Prerequisites

- COP 3223 CProgramming
- MAC 2311 Calculus with Analytic Geo I
- MAC 2312 Calculus with Analytic Geo II
- PHY 2048 & L Physics for Engr & Sci I & Lab
- PHY 2049 Physics for Sci II w/lab

3. Basic Core Requirements

- COP 3330 Intro to OO Programming
- COP 3502C Computer Science I
- COP 3503C Computer Science II
- STA 2023 Statistical Methods I
- ENC 3240 Technical Report Writing
- CDA 3003C Computer Organization
- COT 3100C Intro to Discrete Structures
- PHI 3626 Ethics in Science and Technology
- COT 3960 Foundation Exam (PR:COT 3100 & COP 3502)

4. Intermediate Core

- COP 3402C Systems Software
- COP 3530C Computer Science III

5. Advanced Core

- Students must maintain at least a 2.5 GPA in the following courses. Only the highest grade is used in the calculation.
- CDA 4150 Comp Architecture
- COP 3210 Discrete Comp Structures
- COP 4020 Programming Languages I
- COP 4600 Operating Systems

6. Restricted Electives

- 4000-5000 level Computer Science courses that must include COP 4810 (Topics in Computer Science).
- 4000-5000 level mathematics or statistics courses from: STA, MAP, MAA, MAD, MAS prefixes and MAC 2313, MAP 2302, MAS 3105, and MAS 3106. No independent study hours, internship, or cooperative education hours are allowed.

7. School Exit Requirements

- Complete an exit survey
- Computer Competency met by completion of major

8. Foreign Language Requirements

Admission: Two years high school, or one year college language

(0-4 hrs)

Graduation: Proficiency exam in a second language, one semester of college level Foreign Language, or 3 credits of multicultural courses approved by Computer Science.

9. Electives (variable)

Select primarily from upper level courses, with the student’s advisor’s approval. May be outside of the department.

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required

120 hours

Related Programs: Computer Engineering, Information Technology, Management Information Systems

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Integrated BS/MS Degree Program

The Computer Science program offers the Integrated BS/MS degree to students of high academic standing. This program allows up to nine graduate hours to be substituted for specified BS requirements. See advisor for appropriate substitutions.

FIRST YEAR

- Fall
  - ENC 1101 English Comp I
  - ENC 1102 English Comp II
  - SPC 1016 Tech Presentations
  - MAC 2311 Calc with Analy Geo I
  - MAC 2312 Calc with Analy Geo II
  - PHY 2048 Physics for Sci w/lab
  - PHY 2049 Physics for Sci II w/lab

- Spring
  - COP 3223 C Programming
  - COP 3503C Comp Science II
  - COP 3530 Comp Sci III
  - COP 3530C Comp Science III

SECOND YEAR

- Fall
  - COP 3503C Comp Science II
  - COP 3530 Comp Sci III
  - COP 4600 Operating Systems
  - COT 3100C Discrete Structures

- Spring
  - COP 3530 Comp Sci III
  - COP 3530 Systems Software
  - COP 4020 Programming Languages I

THIRD YEAR

- Fall
  - PHY 2049 Physics for Sci w/lab
  - COP 4020 Programming Langs
  - ENC 3241 Tech Rept Writing
  - PHI 3626 Ethics in Science

- Spring
  - COT 4210 Discrete Struct II
  - CST 4810 Topics in CS
  - COP 4232 Software Syst Dev
  - COP 4600 Operating Systems

FOURTH YEAR

- Fall
  - COP 4600 Operating Systems
  - COP 4810 Topics in CS
  - CST 4810 Topics in CS

- Summer
  - COP 4600 Operating Systems
  - COP 4810 Topics in CS
  - CST 4810 Topics in CS

- Fall
  - COP 4600 Operating Systems
  - COP 4810 Topics in CS
  - CST 4810 Topics in CS

University of Central Florida

2005-2006 Undergraduate Catalog
CRIMINAL JUSTICE (B.A./B.S.)
College of Health and Public Affairs
HPA 311 407-823-2603
http://www.cohpa.ucf.edu/crim jus/
Undergraduate Program Coordinator: David Fabianic
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 60 hours
■ Students must earn a minimum 2.0 GPA in the core requirements and the restricted electives.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 3 hrs
   B. Cultural Historical Foundations 9 hrs
   C. Mathematical Foundations 6 hrs
   D. Social Foundations 9 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
   CJC 3010 Corrections and Penology 3 hrs
   CJE 4014 Police and Society 3 hrs
   CCJ 4701 Research Methods in Criminal Justice 3 hrs

4. Upper Division Restricted Electives (42 hrs)
   ■ 27 additional semester hours of upper division criminal justice course work. Seniors can satisfy up to six hours of this requirement with internship and up to six hours with directed independent study; however, the combination of these non-class options shall not exceed nine hours. Program standards must be met to be eligible for either internships or independent study credits.
   ■ 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 hours

   Related Programs: Legal Studies
   Related Minors: Legal Studies, Public Administration, Psychology.

   Transfer Notes: “D” (1.0) grades are not accepted.

Tentative Course Schedule for Entering Freshmen

Freshman Year* Fall 14 hrs Spring 15 hrs
ENC 1101 3 ENC 1102 3
MGF 1106 3
PSY 2012 or SYG 2000 or ANT2000 3
EUH 2000 or HUM 2211 3
or AMH 2010, ARH 2050, THE 2000, or REL 1300, PHI 2010, LIT 2110, LIT 2120
PAF 2102 2

Sophomore Year Fall 15 hrs Spring 15 hrs
SPC 1600 3 CCJ 3024 3
EUH 2001 or HUM 2230 or AMH 2020 CJ Elective 3
BSC 1005 or MCB1310 or GLY 1030 or PSC 1121 or ANT 2511 CJ Elective 3
Elective 3
POS 2041 or ECO 2013 3

Junior Year Fall 15/16 hrs Spring 15/16 hrs
CJL 3510 3 CJ Elective 3
CJC 3010 3 CJ Elective 3
Supporting Elective/Foreign Language 3 Supporting Elective/Foreign Lang. 3
CJ Elective 3 CJ Elective 3

Senior Year Fall 15 hrs Spring 9/15 hrs
CJ Elective 3 CCJ Internship or CJ Elective 3
CJ Elective 3 CJ Elective 3
Supporting Elective Supporting Elective 3
Elective 3 Elective (if necessary) 3
Elective 3 Elective (if necessary) 3

Criminal Justice (B.S.)
A.S. to B.S. Track
Note: For detailed information about this program, see description in the A.S. to B.S. Programs section.

DIGITAL MEDIA (B.A., B.S.)
College of Arts and Sciences
School of Film and Digital Media
http://www.dm.ucf.edu
E-mail: digitalmedia@dm.ucf.edu
Director of School: T. Frederick

Head of Digital Media Division: J. Michael Moshell
The UCF Digital Media Program allows students to integrate the multiple disciplines of art, literature, and technology. It is designed to:
■ Provide a solid foundation in techniques and theory in one focused area of competence.
■ Provide a broad understanding of related disciplines including arts, humanities, and technology.
■ Provide extended experience in working in multidisciplinary teams on realistic problems.

The program is administered through the College of Arts and Sciences, but draws on courses throughout the university. It recognizes that there are many combinations of courses which meet the needs of individual students. One concentration area (Tools for Visual Language) leads to a Bachelor of Science degree; the others (Visual Language, Digital Music, Tools for Digital Music, Internet and
Interactive Systems, Writing for Media) lead to a Bachelor of Arts degree.

Note: Although the Program maintains a small computer lab for student use, Digital Media majors must have continual access to a laptop computer. Contact Digital Media or see the website (www.dm.ucf.edu) for the minimum hardware and software specifications.

Admission Requirements

- none

Degree Requirements

- UCF students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each required course.
- Residency requirement consists of at least 24 hours of regularly scheduled upper division course work taken at UCF
- Co-op or internship credits are not permitted in this major without prior, written permission.
- Students should see an advisor prior to selecting this major, and at least annually thereafter.

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural and Historical Foundations
     - Take one course from 1.B.1 list 3 hrs
     - Select ARH 2050 or MUL 2010 3 hrs
   - C. Mathematical Foundations 6 hrs
     - If specializing in Tools for Visual Language
       - Select MAC 2311 Calculus with Analytic Geometry I and
       - Select COP 3502C Computer Science I
     - Otherwise
       - Select MAC 1105 College Algebra and
       - Select COP 2500C Concepts in Computer Science
   - Note: these two courses fulfill the math GEP
   - D. Social Foundations 6 hrs
   - E. Science Foundations 6 hrs
     - If specializing in Tools for Visual Language
       - Select PHY 2048 & 2048L Physics Sci & Engr I and
       - Select a course from E.2 list

2. Digital Media Core (24 hrs)
   - DIG 3001* Digital Media Principles 3 hrs
   - GRA 2101C Introduction to Computer Art 3 hrs
   - Note: Admission to the following Digital Media core courses requires an ‘A’ or ‘B’ in DIG 3001.
   - DIG 3485 Visual Language of Moving Image 3 hrs
   - DIG 3205 Digital Media Production I 3 hrs
   - DIG 3821 Creative Digital Problem Solving 3 hrs
   - DIG 4526C Digital Media Production II 3 hrs
   - DIG 4XX User-Centered Design 3 hrs
   - IDS 3701C Internet Software Design 3 hrs

3. Specialization. Choose one of the following 6 areas:

   - Note: each specialization except Internet and Interactive Systems and Writing for Media has an audition, examination, or portfolio requirement which must be met before admission into the Advanced Concentration.

   Graphic Design
   - Students interested in Graphic Design should consider a dual major in Digital Media (B.A. specializing in Internet and Interactive Systems, or Visual Language) and Art (B.F.A.). See a Digital Media advisor or www.dm.ucf.edu for guidance.

   Visual Language (B.A.) (48 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 - Common Program Prerequisites (12 hrs)
   - ARH 2050 History of Western Art I GEP
   - ART 2201C Design Fundamentals-Two Dimensional 3 hrs
   - ART 2203C Design Fundamentals-Three Dimensional 3 hrs
   - ART 2300C Drawing Fundamentals I 3 hrs
   - ART 2301C Drawing Fundamentals II 3 hrs

3B: Visual Language - Basic Concentration: (15 hrs)
   - DIG 3485 Visual Language of Moving Image 3 hrs
   - DIG 3362 Artificial Characters 3 hrs
   - DIG 4390C Visual Storytelling & Visual Develop 3 hrs
   - DIG 3524 The Production Process 3 hrs
   - DIG 4204 Generating and Manipulating Digital Imagery 3 hrs

3C: Visual Language - Advanced Concentration: (21 hrs)
   - Note: Admission to the Advanced Concentration is dependent on a portfolio review by faculty.
   - Choose three of the following courses:
     - DIG 4206C New Imagery in Motion Workshop 12 hrs
     - DIG 4390C Visual Storytelling & Visual Develop Workshop
     - DIG 4451C Visual Storytelling & Visual Dev Workshop
     - Electives*: Independent Studies or Senior Project 9 hrs
   - (*Must be approved by advisor)

3C: Tools for Visual Language - Advanced Concentration: (21 hrs)
   - Note: Admission to the Advanced Concentration is dependent on a portfolio review by faculty, and on passing the Foundation Exam.
   - COP 3502C Computer Science II 3 hrs
   - COT 3100C Introduction to Discrete Structures 3 hrs
   - COT 3600C Foundation Exam 0 hrs
   - DIG 3524 The Production Process 3 hrs
   - DIG 4204 Generating and Manipulating Digital Imagery 3 hrs

3B: Tools for Visual Language - Basic Concentration: (15 hrs)
   - COP 3330 Object Oriented Programming 3 hrs
   - COP 3502C Computer Science II 3 hrs
   - COP 3530C Computer Science III 3 hrs
   - DIG 3485 Visual Language of Moving Image 3 hrs
   - DIG 3362 Artificial Characters 3 hrs
   - DIG 3524 The Production Process 3 hrs
   - Electives: Independent Studies or Senior Project 10 hrs
   - (*Must be approved by advisor)

Writing for Media (B.A.): (30 hrs)

3A: Writing for Media - Common Program Prerequisites: (0 hrs)
   - COP 2500C Concepts in Computer Science GEP
   - ENC 1101 Composition I GEP
   - ENC 1102 Composition II GEP
   - ENC 2101C Introduction to Computer Art GEP
   - MAC 1105 College Algebra GEP
   - Select one course
     - ARH 2050 History of Western Art I GEP
     - ARH 2561 History of Western Art II GEP
     - MUL 2010 Enjoyment of Music GEP

3B: Writing for Media - Basic Concentration: (15 hrs)
   - ENC 3211 Theory & PracticeTech Writing 3 hrs
   - ENC 3311 Advanced Expository Writing 3 hrs
   - ENC 4414 Studies in Hypertext 3 hrs
   - ENC 4415 Digital Rhetoric & Dialogic 3 hrs

3C: Writing for Media - Advanced Concentration: (15 hrs)
   - Choose five of the following courses:
     - ENC 3310 Magazine Writing
     - ENC 4215 Techniques of Tech. Publication
     - ENC 4218 Visual Elements in Documentation
     - ENC 4265 Writing for Computer Industry
     - ENC 4280 Tech Writing Style
     - ENC 4293 Technical Documentation I
DIG 3286C Assembling Digital Media 3 hrs
COP 2500C Concepts in Computer Science GEP

3B: Internet - Basic Concentration: (18 hrs)
- See transfer notes for possible substitutes.
- Select one course
- GEP

3A: Digital Music - Common Program Prerequisites: (10 hrs)
- COP 2500C Concepts in Computer Science GEP
- GRA 2101C Introduction to Computer Art Core
- MAC 1105 College Algebra GEP

3B: Digital Music - Basic Concentration: (19 hrs)
- Note: An audition is required for these courses.
- MUC 3311 MIDI Sequencing I 3 hrs
- MUS 1010 Music Forum (four semesters) 0 hrs
- MUN XXXX Ensembles (four semesters) 4 hrs

3C: Digital Music - Advanced Concentration: (15 hrs)
- FIL 4294 Sound Design III 3 hrs
- FIL 4293C Sound Design II 3 hrs

3A: Tools for Digital Music - Common Program Prerequisites: (5 hrs)
- COP 2500C Concepts in Computer Science GEP

3B: Tools for Digital Music - Basic Concentration: (14 hrs)
- MUC 1101C Composition I 2 hrs
- MUC 2104C Composition II 2 hrs

3C: Tools for Digital Music - Advanced Concentration: (20 hrs)
- MUC 1101C Composition I 2 hrs

Internet and Interactive Systems (B.A.): (42 hrs)
- ART 2201C Design Fundamentals-2D
- DIG 3286C Assembling Digital Media
- GRA 2101C Introduction to Computer Art Core
- MAC 1105 College Algebra GEP

3B: Internet - Basic Concentration: (18 hrs)
- COP 2500C Concepts in Computer Science GEP

4. Capstone Experience (3 hrs)
- DIG 3125C Digital Imagery
- DIG 3450C Interactive Performance I
- DIG 3485 Visual Language of the Moving Image
- DIG 3865 Converging Media
- DIG 4324 Modeling for Realtime Systems II
- DIG 4524L Digital Media Project 1 (Subject to acceptance)
- DIG 4640 Autonomous Media
- DIG 4641 Creative Digital Devices
- DIG 4715C Game Design
- DIG 4715C Game Engines
- DIG 4780 Modeling for Realtime Graphics
- DIG 4921C Media for E-Commerce I
- DIG 4922 Media for E-Commerce II
- EXP 5256 Human Factors I
- FIL 3292 Sound Design I
- FIL 4293C Sound Design II
- IDS 4703 Digital Media Project 2 (Subject to acceptance)
- IDS 4728 UNIX for Graphic Production

5. Foreign Language Requirements (0-8 hrs)
- BA requirements:
- Admission: Met by graduation requirement.
- Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

6. Electives (variable)
- Electives will consist of 3000 and 4000-level courses as approved by the student's advisor. These electives may include DIG 4524L Digital Media Project 1 or IDS 4703 Digital Media Project 2, subject to acceptance in the project.

7. University Minimum Exit Requirements
- 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.

Acceptable substitutes for Common Program Prerequisites if taken prior to transferring to UCF:
- COP 3502C may use any COP course. However, COP 3502C is
a prerequisite for all Computer Science courses and still must be taken.
- DIG 3001 (Digital Media Principles) may use DIG 2000 (Introduction to Digital Media)
- ART XXXX – (Intro to Computer Graphics/Art or Computer Graphics for Artists) may use GRA 2101C or GRA 2101C
- ART XXXX - Design Fundamentals I may use ART 2210C or DIG 3485
- ART XXXX - Video Production and Editing may use IDS 3782C, DIG 3286C, FIL 2224C, or RTV 3283C

EARLY CHILDHOOD EDUCATION
(PRE-KINDERGARTEN THROUGH GRADE 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
ED 206-K, 407-823-4163
E-mail: lhartle@mail.ucf.edu

Admission Requirements:
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- 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
   ENC 1102 Composition II
   SPC 1600 Fundamentals of Oral Communication
   B. Cultural-Historical Foundations* (9 hrs)
   AMH 2010 U.S. History 1492-1877
   AMH 2020 U.S. History 1877-Present
   PHI 2010 Introduction to Philosophy
   C. Mathematical Foundations* (6 hrs)
   MGF 1106 Finite Mathematics
   Select one:
   STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics
   D. Social Foundations (6 hrs)
   POS 2041 American National Government
   PSY 2012 General Psychology
   E. Science Foundations (6 hrs)
   Select one:
   PHY 2010 Introduction to Philosophy
   STA 1060C Basic Statistics using MS Excel or
   F. Education Courses (9 hrs)
   EDF 2005 Introduction to Education
   EDF 2701 Teaching Diverse Populations
   EME 2400 Technology for Educators
   G. Diversity Courses (6 hrs)
   Students must select an additional six hours in courses in the following liberal arts sciences areas: communications, mathematics, science, fine arts and/or humanities, and social sciences.

2. Common Program Prerequisites (25 hrs)
   A. Communications
   ENC 1101 Composition I
   ENC 1102 Composition II
   SPC 1600 Fundamentals of Oral Communication
   B. Humanities
   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
   C. Mathematics
   MAC 1105 College Algebra
   MGF 1206 Finite Mathematics
   One of the following (per GEP)
   STA 1060C Basic Statistics using MS Excel or
   STA 2014C Principles of Statistics

3. Early Childhood Pre-professional Requirements (6 hrs)
   Offered summer semesters. Must be taken prior to Internship II
   ARE 2011 Art & Creativity in Early Childhood Education
   MUE 2211 Music & Movement in Early Childhood

4. Early Childhood Specialization Requirements
   Early Childhood Education majors take a variety of courses related to young children, their learning, their development, and family environment. Students majoring in Early Childhood Education take a series of core and specialization courses to prepare them to teach in the schools and to demonstrate the Florida Educator Accomplished Practitioner standards. Early and continuous field experiences are provided to enhance the Early Childhood Education major’s program and to integrate theory and practice in actual school settings. Throughout the Early Childhood Education program, students document and reflect upon their accomplishments in a Professional Portfolio, which is continuously reviewed by faculty. Required Courses are as follows:
   Semester I (15 hrs)
   EDF 3740 Foundations of ECE
   EDF 3120 Observing Child Growth & Development
   TSL 4080 Theory and Practice of Teaching ESOL
   Semester II (15 hrs)
   EDF 3307 Learning Environments & Guidance
   EEX 3450 Young Children with Special Needs
   RED 3012 Basic Foundations of Reading
   Semester IV (12 hrs)
   EEX 4751 Student Teaching (Internship I)
   EEC 4311 Development of Literacy
   EEC 4943 Student Teaching (Internship II)

5. Internships
   Internships comprise a critical part of the Early Childhood Education program. Therefore, it is crucial that the students are aware of the expectations and requirements of internship placements. For detailed information including requirements and application deadlines see the Undergraduate Catalog, College of Education, Office of Clinical Experiences.
6. Foreign Language Requirements (0-8 hrs)
State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

7. Departmental Exit Requirements
- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- 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 residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

9. Total Semester Hours Required 127 hours
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

**UCF Degree Programs**

**ECONOMICS (B.A.)**

**College of Business Administration**
**Department of Economics, BA2 305, 407-823-3266**
**http://www.bus.ucf.edu/economics**
**E-mail: rpennington@mail.ucf.edu**

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**
- 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 2001
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 3 hrs
  - Select MAC 1105 College Algebra
  - Select STA 2023 Principles of Statistics
- D. Social Foundations 3 hrs
  - Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics
  - Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics

**2. Common Program Prerequisites (3 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

**3. Core requirements (15 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

**4. Upper Division Restricted Electives (18 hrs)**

All economics majors will be required to take six (6) electives by choosing one of the following three options:

A. Standard Option – Select any six (6) 3000-4000 level economics courses other than those required above.

B. International Option: Select any six (6) courses from the following list:

- ECO 3003 Comparative Economic Systems
- ECO 4013 Economic Development
- ECS 4204 Economics of European Integration
- ECS 4204 Economics of the Pacific Rim
- ECS 4210 The Chinese Economy
- ECS 4442H Economic Development of Mexico and Central America
- ECS 494* Economics Internship

* Requires departmental approval

C. Multi-disciplinary Option – Select any four (4) economics courses from the standard option of restricted electives

PLUS any two courses from any one emphasis in consultation with faculty advisor.

- Emphasis 1 Political Economy
- Emphasis 2 Area Studies
- Emphasis 3 International Business
- Emphasis 4 Human Resources
- Emphasis 5 Legal Studies
- Emphasis 6 Financial Economics
5. Required Minor (18 hrs min)
Completion of a minor in one of the following:
- Digital Media
- Computer Science
- History
- Mathematics
- Statistics
- the Social and Behavioral Sciences
- Technical Writing.

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 Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 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.

ECONOMICS (B.S.B.A.)
College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu/economics

R. Pennington; 407-823-3266, rpennington@bus.ucf.edu

Admission Requirements
- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements
1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
      - Required: SPC 1600
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations 3 hrs
      - Select one: MTH 2223, MTH 2326
   D. Social Foundations 3 hrs
      - Select one: PWSK 3155, PSY 2012, SOC 2050, VSP 2000, WRT 1101

2. Common Program Prerequisites
   Must be completed with a “C” (2.0) or better.
   ACG 2021 Principles of Financial Accounting 3 hrs
   ACG 2071 Principles of Managerial Accounting 3 hrs
   ECO 2013 Macroeconomics 3 hrs
   ECO 3401 Quantitative Business Tools I 3 hrs
   CGS 2100C Computer Fundamentals for Business 3 hrs
   *At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO3401. Students who have not completed both classes with a “C” (2.0) or better must take ECO3401.

3. Common Body of Knowledge (30 hrs)
   First Semester in the College of Business Administration:
   GEB 3031 Cornerstone 6 hrs
   Second or subsequent semesters:
   BUL 3130 Legal & Ethical Environ. of Business 3 hrs
   ECO 3411 Quantitative Business Tools II 3 hrs
   FIN 3403 Business Finance 3 hrs
   MAN 3025 Management of Organizations 3 hrs
   ISM 3011 Essentials of Management Information Systems 3 hrs
   Last Semester:
   MAR 3023 Marketing 3 hrs

4. Special College and/or Departmental Requirements
- Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites or approved substitutes.
- Final exams will be given during Exam Week.
- Students must have at least a 2.0 GPA in the COB.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.
- Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students 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.

5. Required Major Courses (9 hrs)
   ECO 3101 Intermediate Price Theory 3 hrs
   ECO 3203 Aggregate Econ Conditions Analysis 3 hrs
   ECO 4851 Research Methods in Economics 3 hrs

6. Upper Division Restricted Electives (18 hrs)
   All economics majors will be required to take six (6) electives by choosing one of the following three options:
   A. Standard Option - Select any six (6) 3000-4000 level economics courses other than the three required above.
   B. International Option - Select any six (6) courses from the following list:
      ECO 3703 International Economics 3 hrs
      ECO 3723 International Commercial Policy 3 hrs
      ECO 4701 The Global Economy 3 hrs
      ECS 4003 Comparative Economic Systems 3 hrs
      ECS 4013 Economic Development 3 hrs
      ECS 4231 The Japanese Economy 3 hrs
      ECS 4204 The Economies of the Pacific Rim 3 hrs
      ECS 4210 The Chinese Economy 3 hrs
      ECS 4303 Economics of European Integration 3 hrs
      ECS 4424H Economic Development of Mexico and Central America 3 hrs
      ECS 4494 International Economics Internship 3 hrs
   C. Multi-Disciplinary Option - Select any four (4) economics courses from the standard option of restricted electives PLUS any two courses from any one emphasis in consultation with faculty advisor.
      Emphasis 1 Political Economy 3 hrs
      Emphasis 2 Area Studies 3 hrs
      Emphasis 3 International Business 3 hrs
      Emphasis 4 Human Resources 3 hrs
      Emphasis 5 Legal Studies 3 hrs
      Emphasis 6 Financial Economics 3 hrs
      Emphasis 7 Quantitative Methods 3 hrs

*Requires special approval
7. Foreign Language Requirements  
(0-8 hrs)  
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

8. University Minimum Exit Requirements  
- A 2.0 UCF GPA  
- 60 semester hours earned after any CLEP award  
- 48 semester hours of upper division credit completed  
- 30 of the last 36 hours of course work must be completed in residency at UCF  
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted  
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

9. Electives*** (variable)  

Total Semester Hours Required 120 hours

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Community/Junior College Transfer Notes  
- Common Program Prerequisites for the State University System for College of Business Administration programs include: Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Business Quantitative Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Professional courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

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Four Year Plan of Study - Economics

### Freshman  
**1st Term** 15 hrs  
ENC 1101* 3  
Cult-Hist I* 3  
SPC 1000 3  
***Elective 3  
--- Must complete 9 hours in a summer semester  
**2nd Term** 15 hrs  
ENC 1102* 3  
Cult-Hist II* 3  
Art/Music/Lit 3  
***Elective 3  
--- Must complete 9 hours in a summer semester

### Sophomore  
**1st Term** 15 hrs  
ECO 2023* 3  
AGC 2021* 3  
***Elective 3  
--- "C" (2.0) or better grade required in each class

### Junior  
**1st Term** 15 hrs  
GEB 3031 3  
MAR 3023 3  
ECO 3101 3  
--- Must complete 9 hours in a summer semester

### Senior  
**1st Term** 15 hrs  
ECO Elective 3  
ISM 3021 3  
BUL 3130 3  
--- Must complete 9 hours in a summer semester

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**Electives*** as required to reach 120 semester hours.

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Accelerated Undergraduate/Graduate Program  
Note: For detailed information about these programs, see descriptions in the “Accelerated Undergraduate/Graduate Program” section of this Undergraduate Catalog.

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**ELECTRICAL ENGINEERING (B.S.E.E.)**

College of Engineering and Computer Science  
Department of Electrical and Computer Engineering,  
ENGR 408, 407-823-2786, Fax: 407-823-5835,  
[http://www.ee.ucf.edu](http://www.ee.ucf.edu)  
K. B. Sundaram, E-mail: sundaram@mail.ucf.edu  

Admission Requirements:  
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes; see also the section, Orientation, found elsewhere in this catalog.

Degree Requirements  
- Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. **UCF General Education Program for Engineering Students**  
(38 hrs)

The UCF General Education Program (GEP) is described in the section, General Education Program, found elsewhere in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

- **A. Communication Foundations**  
  1. Take ENC 1101  
  2. Take ENC 1102  
  3. Prefer SYG 2000  

- **B. Cultural and Historical Foundations**  
  9 hrs

- **C. Mathematical Foundations**  
  7 hrs

- **D. Social Foundations**  
  6 hrs

- **E. Science Foundations**  
  7 hrs  
  1. Take PHY 2048/48L

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.

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**CHS 1440** Fundamentals of Chemistry for Eng  
4 hrs  
(CHEM 2043C/45L will substitute)

**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
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 or
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 I 3 hrs

4. Courses Required for the Major (41 hrs)

EEL 3004 Electrical Networks 3 hrs
EEL 3123C Networks and Systems 4 hrs
EEL 3306 Semiconductor Devices I 3 hrs
EEL 3307C Electronics I 4 hrs
EEL 3342C Intro to Digital Circuits & Systems 3 hrs
EEL 3470 Electromagnetic Fields 3 hrs
EEL 3552C Analog and Digital Communications 4 hrs
EEL 3657 Linear Control Systems 3 hrs
EEL 3801C Intro to Computer Engineering 3 hrs
EEL 4300C 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 4915L Senior Design II 3 hrs
■ CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None

8. University Minimum Graduation Requirements
■ A 2.0 UCF GPA.
■ 60 semester hours earned after any CLEP award.
■ 48 semester hours of upper division credit completed.
■ 30 of the last 36 hours of course work must be completed in residency at UCF.
■ 25% of course work must be completed in residency at UCF.
■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
■ Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit.

Total Semester Hours Required: 128 hrs

Related Programs: Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

Related Minors: none

Transfer Notes:
■ Courses taken from Community Colleges do not substitute for

Upper Division Courses
■ Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Electrical Engineering - 128 semester hours required

FIRST YEAR
Fall 12 hrs
EGN 1006C Intro to Engr 1
"ENC 1101 English Comp I 1
"ENC 1102 English Comp II 3
"CHS 1440 Chem for Engrs 4
"MAC 2311 Calc with Analytic Geo I 4
"PHY 2048L Phys Eng I w/lab 4
Summer 11 hrs
"Cult & Hist Foundations 1a 3
"MAC 2313 Calc with Analytic Geo III 4
"PHY 2049 Phys for Engr/Sci II 3
"PHY 2049L Phys Lab Engr/Sci II 1
SECOND YEAR
Fall 15 hrs
"MAP 2302 Diff Equations 3
"PHY 3101 Phys for Engr/Sci III 3
"EGN 3310 Eng Anal-Statics 3
"EEL 3342C Intro to Dig Circ/Sy 3
"Social Foundations 2 3
"EGN 3420 Engineering Anal2 3
"EEL 3004 Electrical Networks 3
Summer 6 hrs
"Cult & Hist Foundations 1b 3
"ECO 2013 Macroeconomics or
"ECO 2023 Microeconomics
THIRD YEAR
Fall 14 hrs
EEL 3306 Semicond Devices I 4
STA 3032 Prob & Stats Engrs 3
EEL 4767C Cmptr Sys Design I 4
EEL 3123C Cmptr Networks and Systems 4
EGN 3321 Engr Anal-Dynamics 3
or
EGN 3358 Ther-Flds-Ht Transfer
Spring 13 hrs
EEL 3307C Electronics I 4
EEL 3352C Analog and Digital Communications 4
EEL 3657 Linear Control Systems 3
EEL 3801C Intro to Computer Engineering 3
EEL 4300C Electronics II 4
EEL 4750 Digital Signal Processing Fund. 3
EEL 4767C Computer System Design I 4
EGN 3310 Eng Anal-Statics 3
EGN 3321 Engr Anal-Dynamics 3
EGN 3358 Ther-Flds-Ht Transfer

FOURTH YEAR
Fall 14 hrs
EEL 3352C Analog &Dig Comm 4
EEL 3470 Electromagnetic Flds 3
EEL 4300C Electronics II 4
EEL 4914 Senior Design I 3
EGN 3321 Engr Anal-Dynamics 3
Spring 13 hrs
EEL 3470 Electromagnetic Flds 3
EEL 3470 Electromagnetic Flds 3
EEL 3342C Intro to Dig Circ/Sy 3
EEL 3801C Intro to Cmptr Engr2 3
EEL 3004 Electrical Networks 3
EGN 3310 Eng Anal-Statics 3
EGN 3321 Engr Anal-Dynamics 3
EGN 3358 Ther-Flds-Ht Transfer

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. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

Integrated BS/MS Degree Program

The Electrical Engineering program offers the Integrated BS/MS program to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.
ELECTRICAL ENGINEERING - MICROELECTRONICS
CONCENTRATION (B.S.E.E.)

College of Engineering and Computer Science
Department of Electrical and Computer Engineering,
ENGR 408, 407-823-2786, Fax: 407-823-5835,
http://www.ee.ucf.edu

K. B. Sundaram, E-mail: sundaram@mail.ucf.edu

Admission Requirements:
All entering students are required to attend Orientation before regis-
tering for their first semester at UCF. Orientation includes engineer-
ing 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 stu-
dent 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 (38 hrs)
   Engineering Students

   The UCF General Education Program (GEP) is described in this cat-
alog. Engineering students should closely study the requirements of
   the UCF GEP and the allowable substitutions detailed in paragraphs
A. through E. below to minimal excess hours. Students transferring
to UCF from within the Florida State University/Community College
   Systems should complete the GEP and the Common Program
   Prerequisites before transferring.

A. Communication Foundations
   9 hrs
   1. Take ENC 1101
   2. Take ENC 1102
   3. Prefer SPC 1016

B. Cultural and Historical Foundations
   9 hrs
   1. Take MAC 2311, Calculus with Analytic Geometry I, (4 hrs).
   Note: College algebra and trigonometry are prerequisites for Calculus I.
   See the course descriptions.
   2. Take STA 3032, (3 hrs)
   Note: Calculus II is the prerequisite for this course.

D. Social Foundations
   6 hrs
   1. Take ECO 2013 or ECO 2023.

E. Science Foundations
   7 hrs
   1. Take PHY 2048L.

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.

   CHS 1440 Fundamentals of Chemistry for Eng
   (CHM 2045C/45L will substitute) 4 hrs
   MAC 2311 Calculus with Analytic Geometry I*
   GEP
   MAC 2312 Calculus with Analytic Geometry II* 4 hrs
   MAC 2313 Calculus with Analytic Geometry III* 4 hrs
   MAP 2302 Differential Equations* 3 hrs
   PHY 2048L Physics for Engineers & Scientists I*
   GEP
   PHY 2049L Physics for Engineers & Scientists II* 4 hrs
   ENC 1101 Composition I
   ENC 1102 Composition II
   Humanities Courses
   Science Courses
   Humanities or Social Sciences
   GEP
   GEP

3. Courses Required for the Engineering Core (14 hrs)

   The College of Engineering and Computer Science requires all engi-
neering students to achieve a minimum 2.25 GPA in completing these
courses, together with the courses required for the major in 4.
below, technical elective courses listed in 5. below and with the sen-
ior design courses listed in 6. below. Independent study courses
generally do not satisfy major requirements and normally are award-
ed 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 GEP
PHY 3101 Physics for Engineers & Scientists III 3 hrs

4. Courses Required for the Major (41 hrs)

   EEL 3004 Electrical Networks 3 hrs
   EEL 3122C 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 & Digital Communications 4 hrs
   EEL 3657 Linear Control Systems 3 hrs
   EEL 3801C Intro to Computer Engineering 3 hrs
   EEL 4309C Electronics II 4 hrs
   EEL 4750 Digital Signal Processing Fund. 3 hrs
   EEL 4767C Computer System Design I 4 hrs

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
   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 proficien-
cy 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 resid-
ency at UCF.
   25% of course work must be completed in residency at UCF.
   A maximum of 45 hours of extension, correspondence, CLEP,
   Credit by Exam, and Armed Forces credits permitted
   Complete the General Education Program, the Gordon Rule, the
   CLAST, and nine semester hours of Summer credit.

Total Semester Hours Required: 128 hours

Related Programs: Computer Engineering, Computer Science,
Electrical Engineering Technology (Electrical Systems Concentration).

Related Minors: none

Transfer Notes:
Courses taken from Community Colleges do not substitute for
Upper Division Courses.
Courses transferred must be formally evaluated for equivalency
credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those stu-
dents who plan on completing their degree in four years. All engi-
neering students should meet with their faculty advisor to develop
and maintain an appropriate plan of study.

Electrical Engineering -
Microelectronics Concentration 128 semester hours
required

UCF Degree Programs

FIRST YEAR
Fall
12 hrs\(^{1,3}\)
EGN 1006C Intro to Engr
1
EGN 1007C Eng Conc & Meth
1
*ENC 1101 English Comp I
3
EGN 3310 Engineering Analysis - Statics
3

Spring
15 hrs\(^{1,3}\)
EGN 1006C Intro to Engr
1
EGN 1007C Eng Conc & Meth
1
*ENC 1102 English Comp II
3

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### UCF Degree Programs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHS 1440</td>
<td>Chem for Engrs</td>
<td>4</td>
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<tr>
<td>MAC 2311</td>
<td>Calc Analytic Geo I</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2048L</td>
<td>Phys Eng I with Lab</td>
<td>4</td>
</tr>
<tr>
<td>MAC 2312</td>
<td>Calc Analytic Geo II</td>
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<tr>
<td>PHY 2049L</td>
<td>Phys Lab Eng I</td>
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<tr>
<td>MAC 2313</td>
<td>Calc Analytic Geo III</td>
<td>4</td>
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<td>PHY 2049</td>
<td>Phys for Engr/Sci II</td>
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</tr>
<tr>
<td>PHY 2049L</td>
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**Second Year**

<table>
<thead>
<tr>
<th>Term</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall</td>
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</tr>
<tr>
<td><em>Cult &amp; Hist Foundations Ia</em></td>
<td>3</td>
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<tr>
<td><em>MAC 2313 Calc Analytic Geo III</em></td>
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**Summer**

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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td><em>Cult &amp; Hist Foundations Ia</em></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><em>MAC 2313 Calc Analytic Geo III</em></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><em>PHY 2049 Phys for Engr/Sci II</em></td>
<td>3</td>
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<tr>
<td><em>PHY 2049L Phys Lab Engr II</em></td>
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**Second Year**

<table>
<thead>
<tr>
<th>Term</th>
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</tr>
<tr>
<td><em>MAP 2302 Diff Equations</em></td>
<td>3</td>
</tr>
<tr>
<td><em>PHY 3101 Phys Engr/Sci III</em></td>
<td>3</td>
</tr>
<tr>
<td><em>Science Foundations 2</em></td>
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</tr>
<tr>
<td><em>Social Foundations 1</em></td>
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<tr>
<td>EGN 3420 Engineering Anal2</td>
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**Summer**

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<th>Course Title</th>
<th>Credits</th>
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<tr>
<td><em>Cult &amp; Hist Foundations Ib</em></td>
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<tr>
<td>ECO 2033 Microeconomics</td>
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**Third Year**

<table>
<thead>
<tr>
<th>Term</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>14 hrs</td>
</tr>
<tr>
<td>EEL 3306 Semicond Devices I</td>
<td>3</td>
</tr>
<tr>
<td>STA 3032 Prob &amp; Stats Engrs</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4767C Ctrnt Sys Design</td>
<td>3</td>
</tr>
<tr>
<td>EEL 3123C Networks and Systems</td>
<td>4</td>
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**Spring**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 3307C Electronics I</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EEL 3657 Linear Control Sys</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EEL 4750 Dig Signal Proc Fund</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Fourth Year**

<table>
<thead>
<tr>
<th>Term</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>14 hrs</td>
</tr>
<tr>
<td>EEL 3552C Analog &amp; Dig. Comm</td>
<td>4</td>
</tr>
<tr>
<td>EEL 4309C Electromagnetic Fields</td>
<td>4</td>
</tr>
<tr>
<td>EEL 4914 Senior Design I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Spring**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 3307C Electronics I</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EEL 4915L Senior Design I</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the UCF 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.

### ELECTRICAL ENGINEERING - WIRELESS COMMUNICATION CONCENTRATION (B.S.E.E.)

The Electrical Engineering program offers the Integrated BSEE program to students of high academic standing. This program will address specific student interests in a variety of technical areas. For those students with a declared interest in wireless communications, a concentration in this area if available by taking the wireless technical electives below.

**Integrated BS/MS Degree Program**

The Electrical Engineering program offers the Integrated BS/MS program in electrical engineering. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

**Electrical Engineering: Wireless Communication Concentration (B.S.E.E.)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 3101</td>
<td>Physics for Engineers &amp; Scientists II*</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAC 2311</td>
<td>Calculus with Analytic Geometry*</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAC 2312</td>
<td>Calculus with Analytic Geometry II*</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAC 2313</td>
<td>Calculus with Analytic Geometry III*</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAP 2302</td>
<td>Differential Equations*</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHY 2049/48L</td>
<td>Physics for Engineers &amp; Scientists*</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHY 2049/49L</td>
<td>Physics for Engineers &amp; Scientists*</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>Composition II</td>
<td>3 hrs</td>
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<tr>
<td>Humanities Courses</td>
<td>GEP</td>
<td></td>
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<tr>
<td>Social Science Courses</td>
<td>GEP</td>
<td></td>
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<tr>
<td>Humanities or Social Sciences</td>
<td>GEP</td>
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</table>

**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 3. below. Students transferring to another Florida post-secondary school and may be transferred directly to UCF programs.

**Courses Required for the Major**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 3004</td>
<td>Electrical Networks</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3123C</td>
<td>Networks and Systems</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3306</td>
<td>Semicond Devices I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3307C</td>
<td>Electronics I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3342C</td>
<td>Intro to Digital Circuits &amp; Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3470</td>
<td>Electromagnetic Fields</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3552C</td>
<td>Analog &amp; Digital Communications</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3657</td>
<td>Linear Control Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3801C</td>
<td>Intro to Computer Engineering</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 4309C</td>
<td>Electronics II</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 4750</td>
<td>Digital Signal Processing Fund.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 4767C</td>
<td>Computer System Design I</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

**Approved Wireless Technical Electives**

Technical electives are available in the BSEE program to address specific student interests in a variety of technical areas. For those students with a declared interest in wireless communications, a concentration in this area if available by taking the wireless technical electives in addition to the required communication courses listed in 3., above.

---

**UCF General Education Program (GEP)**

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 another Florida post-secondary school and may be transferred directly to UCF programs.

**A. Communication Foundations**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 3004</td>
<td>Electrical Networks</td>
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</tr>
<tr>
<td>EEL 3123C</td>
<td>Networks and Systems</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3306</td>
<td>Semicond Devices I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3307C</td>
<td>Electronics I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3342C</td>
<td>Intro to Digital Circuits &amp; Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3470</td>
<td>Electromagnetic Fields</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

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**UCF GEP Requirements**

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.
### 6. Departmental Graduation Requirements (6 hrs)
- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

### 7. Foreign Language Requirements (0-8 hrs)
**Admission:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** none

### 8. University Minimum Graduation Requirements
- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of upper division credit.

### Total Semester Hours Required:
128 semester hours required

**Related Programs:** Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

**Related Minors:** none

**Transfer Notes:**
- Courses transferred must be formally evaluated for equivalency.
- Courses taken from Community Colleges do not substitute for upper level courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

### Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

#### Electrical Engineering - Wireless Communication Concentration

128 semester hours required

**First Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>12 hrs</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>EGN 1006C Intro to Engr</td>
<td>1</td>
<td>EGN 1007C Eng Conc &amp; Meth</td>
<td>1</td>
</tr>
<tr>
<td>*ENC 1101 English Comp I</td>
<td>3</td>
<td>*ENC 1102 English Comp II</td>
<td>3</td>
</tr>
<tr>
<td>*CHS 1440 Chem for Engrs</td>
<td>4</td>
<td>*SPC 1016 Tech Presentations</td>
<td>4</td>
</tr>
<tr>
<td>*MAC 2311 Calc Analytic Geo I</td>
<td>4</td>
<td>*MAC 2312 Calc Analytic Geo II</td>
<td>4</td>
</tr>
<tr>
<td>*PHY 2048/L Phys Eng I w/lab</td>
<td>4</td>
<td>or</td>
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**Summer**

<table>
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<tbody>
<tr>
<td>*Cult &amp; Hist Foundations 1a</td>
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<tr>
<td>*MAC 2313 Calc Analytic Geo III</td>
</tr>
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<td>*PHY 2049 Phys for Engr/Sci II</td>
</tr>
<tr>
<td>*PHY 2049L Phys Lab Engr/Sci I</td>
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**Second Year**

<table>
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<tr>
<th>15 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
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<tbody>
<tr>
<td>*MAP 2302 Diff Equations</td>
<td>3</td>
<td>*Cult &amp; Hist Foundations 2</td>
</tr>
<tr>
<td>*PHY 2101 Phys Engr/Sci III</td>
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<td>EGN 3210 Eng Anal-Statics</td>
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<tr>
<td>*Science Foundations 2</td>
<td>3</td>
<td>EEL 3342C Intro to Dig Circ/Sys</td>
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<tr>
<td>*Social Foundations 1</td>
<td>3</td>
<td>EEL 3801C Intro to Cmptr Eng2</td>
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<tr>
<td>EGN 3420 Engineering Anal2</td>
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<td>EEL 3004 Electrical Networks</td>
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**Summer**

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<tr>
<td>*Cult &amp; Hist Foundations 1b</td>
</tr>
<tr>
<td>*ECO 2013 Macroeconomics or ECO 2023 Microeconomics</td>
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**Third Year**

<table>
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<th>Fall</th>
<th>14 hrs</th>
<th>Spring</th>
<th>13 hrs</th>
</tr>
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<tbody>
<tr>
<td>EEL 3306 Semicond Devices I</td>
<td>3</td>
<td>EEL 3307C Electronics I</td>
<td>13</td>
</tr>
<tr>
<td>STA 3032 Prob &amp; Stats for Engr</td>
<td>3</td>
<td>EEL 3657 Linear Control Sys</td>
<td></td>
</tr>
<tr>
<td>EEL 4767C Cmpt Sys Design I</td>
<td>4</td>
<td>EEL 4750 Dg Signal Proc Fund</td>
<td></td>
</tr>
<tr>
<td>EEL 3123C Networks and Systems</td>
<td>4</td>
<td>EGN 3321 Engr Anal-Dynamics</td>
<td></td>
</tr>
<tr>
<td>or EGN 335B Ther-Fiis-Htl Transfer</td>
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**Fourth Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>14 hrs</th>
<th>Spring</th>
<th>13 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 3552C Analog &amp; Dig Comm</td>
<td>4</td>
<td>EEL 4515C Dig Comm Systems</td>
<td>4</td>
</tr>
<tr>
<td>EEL 3470 Electromagnetic Flds</td>
<td>3</td>
<td>Approved wireless tech elective</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4390C Electronics II</td>
<td>4</td>
<td>EEL 4915L Senior Design I</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4914 Senior Design I</td>
<td>3</td>
<td>Approved wireless tech elective</td>
<td>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. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1066C and EGN 1070C are required courses for incoming freshmen only.

The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

### Integrated BS/MS Degree Program

The Electrical Engineering program offers the Integrated BS/MS program to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

### ELECTRICAL ENGINEERING TECHNOLOGY - COMPUTER SYSTEMS CONCENTRATION (B.S.E.E.T.)

**College of Engineering and Computer Science Engineering Technology (ENT) Department, ENGR 207**

http://www.ent.ucf.edu

Coordinator: Aliroza Rahrooh
407-823-4749 Fax: 407-823-4746
E-mail: rahrooh@pegasus.cc.ucf.edu
http://www.ent.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 (38 hrs)
- A. Communication Foundations
  - Take ENC 1101, ENC 1102
  - 9 hrs
- Take ENC 1101, ENC 1102
- B. Cultural and Historical Foundations
  - 9 hrs
- C. Mathematical Foundations
  - 1. MAC 1105
  - 2. STA 2023
  - 3. STA 2033
  - 6 hrs
- D. Social Foundations
  - 6 hrs
- E. Science Foundations
  - 1. BSC 1005L, BSC 1050L, or GEO 1200L
  - 4 hrs
  - 2. PHY 2053C
  - 4 hrs

#### 2. Common Program Prerequisites (CPP) (6/8 hrs)

- MAC 2233 Calculus I 3 hrs or MAC 2311
- MAC 2244 Calculus II or equiv 3/4 hrs or MAC 2312
- PHY 2053C Physics I 3 hrs or PHY 2049/L

#### 3. Engineering Technology Core Requirements (25 hrs)

- BSC 1005L, BSC 1050L, GEO 1200L
- 1. ENC 3401 Writing for the Technical Professional
  - 3 hrs
- MAC 1105 College Algebra
  - 3 hrs
- MAC 1114 College Trigonometry
  - 3 hrs
- MAC 2253 Calculus I or
  - 3 hrs
- MAC 2311
- MAC 3401 Problem Analysis or
  - 3 hrs
- MAC 2312
- PHY 2053C College Physics I
  - 3 hrs
- PHY 2054C College Physics II
  - 4 hrs
- ETG 3541 Applied Mechanics
  - 3 hrs
- ETL 3651C Computer Applications
  - 3 hrs
- ETL 3671 Technical Economic Analysis
  - 3 hrs
- ETL 3101 Applied Engng Quality Assurance
  - 3 hrs
- ETL 4448 Applied Project Management
  - 3 hrs
4. Technical Specialization (56 hrs)

**Lower Level Required and Elective Courses (20 hrs)**

- **EST 3543C** Programmable Logic Controllers 3 hrs
- **CET 3323C** Digital Technology 4 hrs
- **CET 2364** System Applications in C 3 hrs
- **EET 3085C** Electricity and Electronics 4 hrs
- **EET 1025C** Electrical Circuits 4 hrs
- **STA 2023** Statistical Methods I GEP

**Upper Level Technical Electives (3 hrs)**

See faculty advisor for list of approved Technical Electives.

**Upper Level Required Courses (30 hrs)**

- **CET 3198C** Digital Systems 3 hrs
- **EET 3538** Microcomputer Technology I 3 hrs
- **CET 3383** Applied Systems Analysis I 3 hrs
- **CET 4333** Computer Organization & Design 3 hrs
- **CET 4427** Applied Database I 3 hrs
- **CET 4505** Applied Operating Systems I 3 hrs
- **EET 3716** Network Analysis 3 hrs
- **CET 4138C** Digital Programmable Devices 3 hrs
- **CET 4134C** Microprocessor Elec II 3 hrs
- **CET 4429** Applied Database II 3 hrs

**Upper Level Technical Electives (6 hrs)**

See faculty advisor for list of approved Technical Electives.

5. Departmental Exit Requirement (3 hrs)

- **ETG 4950C** Senior Design Project 3 hrs
- A grade of 2.0 or better is required in all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

**Admission:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** none

7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in 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 hours

**Related Programs:** Electrical Engineering Technology (Electrical Systems Concentration)

**Related Minors:** none

**Transfer Notes:**

Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.

Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)

Courses taken from Community Colleges do not substitute for Upper Division Courses.

Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.

ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.

PHY 2048/L can substitute for PHY 2053C.

**Tentative Course Schedule for the Computer Systems Concentration**

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

**Junior Year**

**Fall**

- MAC 2253/2311 Calculus I 3/4 hrs
- PHY 2053C College Physics I CPP
- STA 2023 Statistical Methods I GEP
- MAC 2312 Calculus II 3/4 hrs
- EET 3716 Network Analysis 3 hrs
- ETI 3116 Appl Eng Qual Assur 3 hrs
- CET 4427 Applied Database I 3 hrs
- **EET 3716** Network Analysis 3 hrs

**Spring**

- MAC 2253/2311 Calculus I 3/4 hrs
- PHY 2053C College Physics I CPP
- STA 2023 Statistical Methods I GEP
- MAC 2312 Calculus II 3/4 hrs
- EET 3716 Network Analysis 3 hrs
- ETI 3116 Appl Eng Qual Assur 3 hrs
- CET 4427 Applied Database I 3 hrs
- **EET 3716** Network Analysis 3 hrs

**Summer**

- CET 4448 Appl Proj Management 3 hrs
- CET 3503 Microcomputer Tech I 3 hrs
- CET 4505 Appl Oper Sys I 3 hrs
- ETI 3651C Appl Oper Sys I 3 hrs
- CET 4138C Digital Prgml Devices 4 hrs
- **ETI 3651C** Appl Oper Sys I 3 hrs

**Senior Year**

**Fall**

- EET 4048 Appl Proj Management 3 hrs
- CET 3503 Microcomputer Tech I 3 hrs
- CET 4505 Appl Oper Sys I 3 hrs
- ETI 3651C Appl Oper Sys I 3 hrs
- CET Elective 3 hrs
- **ETI 3651C** Appl Oper Sys I 3 hrs

**Spring**

- EET 4048 Appl Proj Management 3 hrs
- CET 3503 Microcomputer Tech I 3 hrs
- CET 4505 Appl Oper Sys I 3 hrs
- ETI 3651C Appl Oper Sys I 3 hrs
- CET Elective 3 hrs
- **ETI 3651C** Appl Oper Sys I 3 hrs

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**ELECTRICAL ENGINEERING TECHNOLOGY - ELECTRICAL SYSTEMS CONCENTRATION (B.S.E.E.T.)**

College of Engineering and Computer Science
Engineering Technology (ENT) Department
ENGR 207
http://www.ent.ucf.edu
Coordinator: Alireza Rahrooh
407-823-4749 Fax: 407-823-4746
E-mail: rahrooh@pegasus.cc.ucf.edu
http://www.ent.ucf.edu

**Admission Requirements**

- None

**Degree Requirements**

- Students should check with their ENT 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** (38 hrs)

   - A. Communication Foundations 9 hrs
     - Select ENC 1101, 1102
   - B. Cultural and Historical Foundations 9 hrs
     - Prefer SPC 1016
   - C. Mathematical Foundations 9 hrs
     - 1. MAC 1105
     - 2. STA 2023
   - D. Social Foundations 6 hrs
   - E. Science Foundations 9 hrs
     - 1. BSC 1005/L, BSC 1050/L, or GEO 1200/L
     - 2. PHY 2053C
     - 3. PHY 2055
   - 4. MAP 3401
     - 2. PHY 2053C
     - 4. MAC 2253
   - 3. PHY 2055
     - 2. PHY 2053C
   - 4. MAP 3401

2. **Common Program Prerequisites (CPP)** (6/8 hrs)

   - MAC 2253 or MAC 2311
   - MAC 2254 or MAC 2312
   - PHY 2053C or PHY 2048/L

3. **Engineering Technology Core Requirements** (25 hrs)

   - MAC 1114 or MAC 2253 or MAC 2312
   - PHY 2053C or PHY 2048/L
   - MAC 1105
   - MAC 2253 or MAC 2312
   - PHY 2053C
   - PHY 2054C
   - EET 3541
   - ETC 3541
   - ESC 4321
   - ESC 4322
   - ENC 1101
   - ENC 1102
   - SPC 1016
   - MAC 1105
   - STA 2023
   - GEO 1200
   - PHY 2053C
   - PHY 2048/L

---

140 UNIVERSITY OF CENTRAL FLORIDA 2005-2006 Undergraduate Catalog
UCF Degree Programs

ELECTRICAL ENGINEERING TECHNOLOGY (BSEET)

AS to BSEE 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
E-mail: ducharme@mail.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 (38 hrs)
   - Communication Foundations 9 hrs
   - Select ENC 1101, 1102
   - Prefer SPC 1016
   - Cultural and Historical Foundations 9 hrs
   - Mathematical Foundations
     1. MAC 1105 3 hrs
     2. STA 2023 3 hrs
   - Social Foundations 6 hrs
   - Science Foundations
     1. BSC 1005L, BSC 1050L, or GEO 1200L 4 hrs
     2. PHY 2053C 4 hrs

2. Common Program Prerequisites (CPP) (6/8 hrs)
   - MAC 2233 or MAC 2311 3/4 hrs
   - MAC 2234 or MAC 2312 3/4 hrs
   - PHY 2053C or PHY 2048L 3 hrs

3. Engineering Technology Core Requirements (22 hrs)
   - BSC 1005L, BSC 1050L, GEO 1200L 3 hrs
   - ENC 3241 Writing for the Technical Professional 3 hrs

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 Applied Calc I 3/4  
PHY 2053C 4 hrs  
EET 4732C Feedback Control Systems 3 hrs  
ETG 4950C Sr. Design Proj 3 hrs  

Spring: 15/16 hrs  
MAC 2311 Calc w/Anal Geom I 3  
ETG 3541 Applied Mechanics 3  
CET 3503 Microcom Tech I 3  
PHY 2054C/2049 Physics II 4  
ETI 3671 Tech Economic Analysis 2  

Summer: 6 hrs  
CET 4134C Microprocessor Elec II 3  
ETI 4488 Applied Project Management 3  

Senior Year

Fall: 12 hrs  
EET 4548 Power Systems 3  
ETG 3541 Applied Mechanics 3  
ETI 3116 App Eng Quality Assurance 3  
CET/EET Approved Elective 3  

Spring: 13 hrs  
ETG 3541 Applied Mechanics 3  
ETI 4488 Applied Project Management 3  

ETG 3541 Applied Mechanics 3  
ETI 3116 App Eng Quality Assurance 3  
CET/EET Approved Elective 3  

UCF Degree Programs

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<td>ETI 4448</td>
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4. Technical Specialization (56 hrs)

Lower Level Required and Elective Courses (20 hrs)

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<td>CET 3323C</td>
<td>Digital Fundamentals</td>
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<td>CET 2346L</td>
<td>System Applications in C</td>
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<td>EET 1141C</td>
<td>Analog Devices</td>
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<td>EET 2142C</td>
<td>Analog Circuits</td>
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<td>EET 3143C</td>
<td>Electronic Devices and Circuits</td>
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<td>Electrical Circuits</td>
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<td>EET 3085C</td>
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Upper Level Required Courses (21 hrs)

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<td>CET 4134C</td>
<td>Microprocessor Electronics II</td>
<td>3</td>
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<td>EET 3718</td>
<td>Network Analysis</td>
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<td>EET 4158C</td>
<td>Linear Integrated Circuits</td>
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<td>Power Systems</td>
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Upper Level Technical Electives (9 hrs)

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<td>CET 3503</td>
<td>Microcomputer Technology I</td>
<td>3</td>
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<tr>
<td>CET 4333</td>
<td>Computer Organization &amp; Design</td>
<td>3</td>
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<td>CET 4931</td>
<td>Current Topics in Tech</td>
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<td>EET 4329C</td>
<td>Communication Systems</td>
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<td>EET 4339C</td>
<td>Antennas and Propagation</td>
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<td>EET 4359C</td>
<td>Digital Communications</td>
<td>4</td>
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</table>

5. Departmental Exit Requirement (3 hrs)

- ETG 4900C Senior Design Project 3 hrs
- A grade of 2.0 or better is required in all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission:
- Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Approved Technical Electives (0-4 hrs)

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hours

Related Programs: Electrical Engineering Technology (Computer Systems Concentration).

Related Minors: none

Transfer Notes:
- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L can substitute for PHY 2053C.

Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L can substitute for PHY 2053C.

Tentative Course Schedule for the Electrical Systems Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year

Fall: 13/14 hrs  
MAC 2253 Applied Calc I 3/4  
PHY 2053C 4 hrs  
EET 4732C Feedback Control Systems 3 hrs  
ETG 4950C Sr. Design Proj 3 hrs  

Spring: 15/16 hrs  
MAC 2311 Calc w/Anal Geom I 3  
ETG 3541 Applied Mechanics 3  
CET 3503 Microcom Tech I 3  
PHY 2054C/2049 Physics II 4  
ETI 3671 Tech Economic Analysis 2  

Summer: 6 hrs  
CET 4134C Microprocessor Elec II 3  
ETI 4488 Applied Project Management 3  

Senior Year

Fall: 12 hrs  
EET 4548 Power Systems 3  
ETG 3541 Applied Mechanics 3  
ETI 3116 App Eng Quality Assurance 3  
CET/EET Approved Elective 3  

Spring: 13 hrs  
ETG 3541 Applied Mechanics 3  
ETI 4488 Applied Project Management 3  

UCF Degree Programs

MAC 1105 College Algebra                GEP
MAC 114 College Trigonometry            3 hrs
MAC 2253 or Calculus I                  CPP
MAC 2311 Problem Analysis or            
MAC 2312 Calculus II                    CPP
PHY 2053C College Physics I             CPP
PHY 2054C College Physics II            4 hrs
ETG 3541 Applied Mechanics              3 hrs
ETI 3671 Technical Economic Analysis   3 hrs
ETI 3116 Applied Engineering Quality Assurance 3 hrs
ETI 4448 Applied Project Management     3 hrs

4. Technical Specialization            (59 hrs)
Lower Level Required                        (24 hrs)
EST 3543C Programmable Logic Controllers 3 hrs
EET 2764 System Applications in C         3 hrs
ET 1141C Analog Devices                   4 hrs
EET 2142C Analog Circuits                 4 hrs
EET 2025C Electrical Circuits             4 hrs
EET 3085C Electricity and Electronics     4 hrs
STA 2033 Statistical Methods I            GEP

Lower level elective                      2 hrs

Upper Level Required Courses             (33 hrs)
EET 3716 Network Analysis                3 hrs
EET 4158C Linear Integrated Circuits     3 hrs
EET 4548 Power Systems                   3 hrs
EST 3222 Intro to Photonics              3 hrs
EST 3213 Photonics Simulation            3 hrs
EST 4236 Laser Systems Technology        3 hrs
EST 4247 Photonics Sensors and Devices   3 hrs
EST 4256 Photonics Communication         3 hrs

Upper Level Technical Electives          (3 hrs)
Check with ENT faculty advisor for approved electives.

5. Departmental Exit Requirement        (3 hrs)
   ■ 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 UCF GPA
   ■ 60 semester hours earned after any CLEP award
   ■ 48 semester hours of upper division credit completed
   ■ 30 of the last 36 hours of course work must be completed in residency at UCF
   ■ 25% of course work must be completed in residency at UCF
   ■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   ■ Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hrs
Related Programs: Electrical Engineering Technology (Computer Systems Concentration).
Related Minors: none

Transfer Notes:
■ Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
■ Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
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■ 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 2048L can substitute for PHY 2053C.

Tentative Course Schedule for the Electrical Systems Concentration
The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year
Fall 13/14 hrs  Spring 14/15 hrs
MAC 2253 Calculus I            3/4 MAP 3401 Problem Analysis or 3/4
or MAC 2312 Calculus II         or
MAC 2331 Calc w/AnalyGeom I    3     EST 3213 Wave Photons       3
ETG 3541 Applied Mechanics      3     EST 4236 Laser Sys Tech    3
EST 3222 Intro to Photonics    3     EET 3716 Network Analys     3
PHY 2054C/2049 Physics II      4     ETI 3671 Tech Economic Anal 2

Summer 6 hrs
EST 3116 Appl Eng Quality Assur 3
ETI 4448 Applied Project Management 3

Senior Year
Fall 15 hrs  Spring 15 hrs
EET 4548 Power Systems         3     EST 4256 Photonics Comm    3
EET 4158C Linear Int Cir       3     CET/EE/EE Approved Electve 3
ETI 3116 App Eng Quality Assur 3     EST 3543C Prog Logic Cont 3
EST 3213 Photonics Simulation  3     ENC 3241 Writing Tech Pros 3
EST 4227 Photonics Sensors     3     EST 4259C Photonics System 3

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 consult with an advisor

1. UCF General Education Program          (36 hrs)
   A. Communication Foundations         (9 hrs)
   ENC 1101 Composition I               3 hrs
   ENC 1102 Composition II              3 hrs
   SPC 1600 Fundamentals of Oral Comm   3 hrs
   B. Cultural-Historical Foundations   (9 hrs)
   AMH 2010 U.S. History 1492-1877      3 hrs
   AMH 2020 U.S. History 1877-Present   3 hrs
   PHI 1010 Introduction to Philosophy  3 hrs
   C. Mathematical Foundations         (6 hrs)
   MGF 1106 Finite Mathematics         3 hrs
   STA 1000C Basic Statistics using MS Excel or 3 hrs
   STA 2014C Principles of Statistics  3 hrs
   D. Social Foundations               (6 hrs)
   POS 2041 American National Government 3 hrs
   PSY 1202 General Psychology         3 hrs
   E. Science Foundations              (6 hrs)
   PSC 1121 Physical Science           3 hrs
   Select one: 3 hrs
   ANT 2511 The Human Species or
   BSC 1005 Biological Principles     3 hrs

Note: See laboratory component under Section 2.
2. Common Program Prerequisites (29 hrs)

A. Communications (9 hrs)

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<td>ENC 1101</td>
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<tr>
<td>ENC 1102</td>
<td>Composition II</td>
<td>3 hrs</td>
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<tr>
<td>SPC 1600</td>
<td>Fundamentals of Oral Communication</td>
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B. Humanities (6 hrs)

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<td>MUL 2010</td>
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<td>THE 2000</td>
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<td>FIL 2400</td>
<td>History of Motion Pictures</td>
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C. Mathematics (9 hrs + lab)

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<tr>
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One of the following (per GEP)

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<td>STA 1060C</td>
<td>Basic Statistics using MS Excel or</td>
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<td>STA 2014C</td>
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D. Social Science/History (12 hrs)

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<td>POS 2041</td>
<td>American National Government</td>
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<tr>
<td>PSY 2012</td>
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E. Science (9 hrs + lab)

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<td>BSC 1005</td>
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<td>GEO 1200</td>
<td>Physical Geography</td>
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<td>GLY 1030</td>
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Select one associated science lab:

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<td>BSC 1005L</td>
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<tr>
<td>PSC 1121L</td>
<td>Physical Science Laboratory</td>
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F. Education Courses (9 hrs)

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</tr>
<tr>
<td>EME 2040</td>
<td>Technology for Educators</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

G. Diversity Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GED 3012</td>
<td>Elementary School Mathematics</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

H. Other Program Prerequisites (10 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGF 1106</td>
<td>Finite Mathematics</td>
<td></td>
</tr>
</tbody>
</table>

Additional required electives in the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences.

3. Recommended Sequence of Program Courses

NOTE: This recommended sequence may vary at selected regional locations.

Semester I (Fall) 15 hrs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 4232</td>
<td>Professional Teaching Practices</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EDF 4214</td>
<td>Classroom Learning Principles</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LAE 3414</td>
<td>Children's Literature 3 hrs</td>
<td></td>
</tr>
<tr>
<td>RED 3012</td>
<td>Foundations of Reading</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Additional courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSL 4080</td>
<td>Theory and Practice of Teaching ESOL</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Students in Schools (required prior to Internship I)

Semester II (Internship Block) 12 hrs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED 4519</td>
<td>Diagnostic &amp;Corrective Reading Strategies</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAE 3426</td>
<td>How Children Learn Math</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEX 4003</td>
<td>Teaching/Management Tech Ex Ed Student</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EDE 3942</td>
<td>Internship I</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Prior to Internship I, the student must have completed each of the prerequisite courses indicated above with a letter grade of "C-" (1.75) or better.

See additional requirements listed under College of Education, Office of Clinical Experiences

Note: RED 4519, MAE 4326, and EEX 4003 are taken concurrently with EDE 3942

Semester III 15 hrs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 4603</td>
<td>Analysis of Critical Issues in Education</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MUE 3210</td>
<td>Teaching Music in the Elementary School</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HLP 4722</td>
<td>Teaching Elementary Health and Physical Education</td>
<td>3 hrs</td>
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</table>

Semester IV 12 hrs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARE 4313</td>
<td>Teaching Art in the Elementary School</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TSL 4141</td>
<td>Issues in Second Language Acquisition</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EDE 4943</td>
<td>Internship II</td>
<td>12 hrs</td>
</tr>
</tbody>
</table>

All methods/specialization/foundations courses (*) must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II.

See additional requirements listed under College of Education, Office of Clinical Experiences.

Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.065

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

A. Achieve a minimum 2.5 GPA in all courses within the major.

B. Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.

C. Complete a TESOL notebook as required for ESOL Endorsement.

D. Pass all applicable sections of the Florida Teacher Certification Examination.

6. 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. 30 of the last 36 hours of course work must be completed in residency at UCF

E. 25% of course work must be completed in residency at UCF

F. 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

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.

8. Recommended Four-Year Sequence of Courses

UCF Degree Programs
### UCF Degree Programs

#### Engineering Technology - Design Concentration (B.S.E.T.)

**College of Engineering and Computer Science**

**Engineering Technology (ENT) Department, ENGR 207**

[http://www.ent.ucf.edu](http://www.ent.ucf.edu)

**Coordinator:** Lucy Morse 407-823-4742, Fax: 407-823-4746

**ENT Departmental Residency Requirements:**
- Consist of at least 30 of the last 36 hours of course work completed in residency at UCF
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 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)

**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.

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### Senior Year

#### Fall (15 hrs) Spring (12 hrs)

- See Section 3, Semester III above
- See Section 3, Semester IV above

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### 1. UCF General Education Program (38 hrs)

- **A. Communication Foundations** 9 hrs
  - 1. ENC 1101, ENC 1102
  - 2. Prefer SPC 1016
- **B. Cultural and Historical Foundations** 9 hrs
- **C. Mathematical Foundations**
  - 1. MAC 1105
  - 2. STA 2023
- **D. Social Foundations** 6 hrs
- **E. Science Foundations**
  - 1. PHY 2053C 4 hrs
  - 2. BSC 1005&L, BSC 1050&L, or GEO 1200&L 4 hrs

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### 2. Common Program Prerequisites (CPP) (6/8 hrs)

- **MAC 2233** or Calculus I 3/4 hrs
- **MAC 2244** or Calculus II or equiv 3/4 hrs
- **MAC 2311** 3 hrs
- **MAC 2322** 3 hrs
- **PHY 2053C or PHY 2048/L** 4 hrs

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### 3. Engineering Technology Core Requirements (21 hrs)

- **ANT 2911**, BSC 1005, BSC 1050, GEO 1200, GEO 2370 or GLY 1030 3 hrs
- **ENC 3241** Writing for the Technical Professional 3 hrs
- **MAC 1105** College Algebra 3 hrs
- **MAC 1114** College Trigonometry 3 hrs
- **MAC 2233 or Calculus I** 3 hrs
- **MAC 2311** 3 hrs
- **MAP 3401** Problem Analysis or MAC 2412 3 hrs
- **PHY 2053C** College Physics I 3 hrs
- **ETG 3541** Applied Mechanics 3 hrs
- **ETI 3561C** Computer Applications 3 hrs
- **ETI 3671** Technical Economic Analysis 3 hrs
- **ETI 3116** Applied Engineering Quality Assurance 3 hrs
- **ETI 4635** Technology Administration 3 hrs

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### 4. Technical Specialization (60 hrs)

#### Lower Level Required and Elective Courses (28 hrs)

- **EST 3543C** Programmable Logic Controllers 3 hrs
- **CHM 1032, 103L** General Chemistry, Lab 4 hrs
- **CET 2364** Systems Application in C 3 hrs
- **EET 3085C** Electricity and Electronics 4 hrs
- **EGN 1111C** Engr Computer Graphics 2 hrs
- **STA 2023** Statistical Methods I 3 hrs

- **Approved Lower Level Technical Electives** 11 hrs

#### Upper Level Required Courses (21 hrs)

- **EST 4502C** Metrology & Instrumentation 4 hrs
- **ETD 3350C** Applied CAD 3 hrs
- **ETG 3533C** Applied Engineering Strength of Materials 4 hrs
- **ETI 3421** Materials & Processes 3 hrs
- **ETM 4220** Applied Energy Systems 4 hrs
- **ETI 4448** Applied Project Management 3 hrs

#### Upper Level Technical Elective (Select 4) (12 hrs)

- **ETC 4206** Construction Estimating 3 hrs
- **ETC 4241C** Construction Materials & Methods 3 hrs
- **ETC 4242** Construction Contracts & Spec 3 hrs
- **ETC 4243** Building Systems 3 hrs
- **ETC 4414C** Applied Structural Design I 3 hrs

- **ETC 4115C** Applied Structural Design II 3 hrs
- **ETM 4331C** Applied Fluid Mechanics 4 hrs
- **ETM 4512C** Applied Design of Machine Elements 3 hrs
- **ETI 3418C** Computer Numerical Controls 3 hrs
- **ETM 4223C** Applied Heat Transfer 4 hrs
- **ETM 4755** Applied Air Conditioning 4 hrs

#### 5. Departmental Graduation Requirement (3 hrs)

- **ETG 4950C** Senior Design Project

- A grade of 2.0 or better is required in all prerequisites.

#### 6. Foreign Language Requirements (0-8 hrs)

- **Admission:**
  - Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

- **Graduation:**
  - None

#### 7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

#### 8. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

**Total Semester Hours Required:** 128 hours

**Related Programs:** Engineering Technology (Operations Concentration)

**Related Minors:** None

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### 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 30 of the last 36 hours of course work completed in residency at UCF
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 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)

**Credit by Exam, and Armed Forces credits permitted**

**Transfer Notes:**

**Related Minors:**
- None

### Tentative Schedule for the Design Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

#### Junior Year

**Fall (13/14 hrs) Spring (13 hrs)**

- **MAC 2253/2311 Calculus I** 3/4 hrs
- **MAP 3401 Problem Analysis** 3 hrs
- **ETI 3561C Computer Applications** 3 hrs
- **ETI 3421** Materials & Processes 3 hrs
- **ETM 4220** Applied Energy Systems 4 hrs
- **ETI 3116 App Eng Qual Assur** 3 hrs
- **ETM 4223C** Applied Heat Transfer 3 hrs
- **ETG 2053C/2048 Physics I** 4 hrs
- **ETM 4755** Applied Air Conditioning 4 hrs

- ETC/ETI Elective 3 hrs

**Summer (10 hrs)**

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**UCC 2005-2006 Undergraduate Catalog**

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**UNIVERSITY OF CENTRAL FLORIDA**

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ENGINEERING TECHNOLOGY - OPERATIONS CONCENTRATION (B.S.E.T.)

College of Engineering and Computer Science
Engineering Technology (ENT) Department, ENGR 207
http://www.ent.ucf.edu

Coordinator: Lucy Morse
407-823-4742, Fax: 407-823-4746

Admission Requirements

none

Degree Requirements

- Students should check with their ENT 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 (38 hrs)
   A. Communication Foundations
      ENC 1101, ENC 1102
      English Composition I
      9 hrs
   B. Cultural and Historical Foundations
      MAC 1105
      STA 2023
      6 hrs
   C. Mathematical Foundations
      MAC 2311
      MAC 2312
      6 hrs
   D. Science Foundations
      PHY 2053
      BSC 1050
      4 hrs
   E. Science Foundations
      PHY 2053C or PHY 2048/L
      MAC 2311
      MAC 2312
      3/4 hrs

2. Common Program Prerequisites (CPP) (6/8 hrs)
   MAC 2525 or MAC 2525e
   MAC 2531 or MAC 2531e
   MAC 2535 or MAC 2535e
   PHY 2053C or PHY 2048/L
   3 hrs
   3/4 hrs

3. Engineering Technology Core Requirements (21 hrs)
   ANT 2511, BSC 1050, BSC 1050, GEO 1200,
   GEO 2341, Writing for the Technical Professional
   MAC 1105
   MAC 1114
   MAC 2525 or MAC 2525e
   MAC 2531 or MAC 2531e
   MAP 3401
   MAC 2312
   PHY 2053C
   ETG 3541
   ETI 3651C
   ETI 3671
   ETI 3116
   ETI 4635
   9 hrs
   3 hrs
   3 hrs
   3 hrs
   3 hrs
   3 hrs
   3 hrs
   3 hrs
   3 hrs
   3 hrs
   3 hrs

4. Technical Specialization (60 hrs)
   EST 3542C
   CET 3264
   EET 3085C
   EGN 1111P
   STA 2023
   MAC 2311
   3 hrs
   4 hrs
   3 hrs
   2 hrs
   3 hrs
   3 hrs

   Lower Level Required and Elective Courses (28 hrs)
   ETG 3541
   ETI 4640
   ETI 5060
   MAC 2311
   4 hrs
   3 hrs
   3 hrs
   4 hrs

   Upper Level Required Courses (16 hrs)
   ETI 4640
   ETI 4650
   ETI 3421
   ETM 4220
   EMI 4448
   3 hrs
   3 hrs
   3 hrs
   4 hrs
   3 hrs

   Upper Level Technical Elective (Select 5) (17 hrs)
   EMI 4448
   ETI 3690
   3 hrs
   Technical Sales

5. Departmental Graduation Requirement (3 hrs)
   ETG 4950C Senior Design Project
   3 hrs

6. 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 course hours completed
   - 25% of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, or 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 the catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly scheduled 3000- or 4000-level courses taken from the UCF ENT Department.
- PHY 2048/L and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>MAC 2233</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHY 2048/L</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EST 3542C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 3264</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EET 3085C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EGN 1111P</td>
<td>2 hrs</td>
</tr>
<tr>
<td>STA 2023</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAC 2311</td>
<td>3 hrs</td>
</tr>
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</table>

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 3401</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EMI 4448</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 3651C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 4640</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 4635</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 4635</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHY 2053C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHY 2054C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 4640</td>
<td>3 hrs</td>
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Senior Year

Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 2048/L</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EST 3542C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 3264</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EET 3085C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EGN 1111P</td>
<td>2 hrs</td>
</tr>
<tr>
<td>STA 2023</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAC 2311</td>
<td>3 hrs</td>
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</tbody>
</table>

Spring

<table>
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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MAP 3401</td>
<td>3 hrs</td>
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<tr>
<td>EMI 4448</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 3651C</td>
<td>3 hrs</td>
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<tr>
<td>ETI 4640</td>
<td>3 hrs</td>
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<td>ETI 4635</td>
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<td>ETI 4635</td>
<td>3 hrs</td>
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<tr>
<td>PHY 2053C</td>
<td>3 hrs</td>
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<tr>
<td>PHY 2054C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 4640</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Lower Level Courses

- EST 3542C
- CET 3264
- EET 3085C
- EGN 1111P
- STA 2023
- Approved Lower Level Technical Electives

Upper Level Courses

- ETI 4640
- ETI 4650
- ETI 3421
- ETM 4220
- EMI 4448
- ETI 3690

Technical Sales
ENGINEERING TECHNOLOGY - SPACE SYSTEMS CONCENTRATION (B.S.E.T.)

College of Engineering and Computer Science

Engineering Technology (ENT) Department
Florida Space Institute
Kennedy Space Center, FL 32899

http://www.ent.ucf.edu

Coordinator: Dr. Nebil Misconi 407-823-4751 or 321-459-0199

Admission Requirements: none

Degree Requirements:
- Students should consult 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

(38 hrs)

A. Communication Foundations
ENC 1101, ENC 1102

Prefer SPC 1016

B. Cultural and Historical Foundations
MAC 1105

STA 2023

C. Mathematical Foundations
MAC 114

STA 2033

D. Social Foundations
MAC 2311

E. Science Foundations
PHY 2053C or PHYS 2048


2. Common Program Prerequisites (CPP)

(6/8 hrs)

MAC 2253 or MAC 2311

MAC 2254 or MAC 2312 Calc II

PHY 2053C or PHYS 2048


3. Engineering Technology Core Requirements

(24 hrs)

AST 2002 Astronomy

ENC 3241 Writing for the Technical Professional

MAC 1105 College Algebra

MAC 1114 College Trigonometry

MAC 2253 or MAC 2311 Calculus I

MAC 2311 MAP 3401 Problem Analysis

MAC 2312 Calculus II

PHY 2053C College Physics I

ETG 3441 Applied Mechanics

ETI 3513 Computer Applications

ETI 3671 Technical Economic Analysis

ETI 3616 Applied Engineering Quality Assurance

ETI 4448 Project Management


4. Technical Specialization

(57 hrs)

Lower Level Required and Elective Courses

(24 hrs)

EST 3543C Prog Logic Controllers

CHM 1032, 1032L General Chemistry with Lab

CET 2364 Systems Appl. in C

EET 3085C Electricity and Electronics

EGN 1111C Eng Computer Graphics

STA 2033 Statistical Methods I

Approved Lower Level Technical Electives

(8 hrs)

Upper Level Required and Elective Courses

(21 hrs)

EST 4502C Metrology & Instrumentation

ETD 3350C Applied CAD

ETG 3533C Applied Engineering Strength of Materials

ETM 4220 Applied Energy Systems

ETI 4835 Rocket Propulsion Technology

ETI 4836 Space Systems Tech

5. Departmental Graduation Requirement

ETG 4950C Senior Design Project

A grade of 2.0 or better is required for all prerequisites.

6. Foreign Language Requirements

(6-8 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 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 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 2253/2311 Calculus I 3 or 4 MAP 3401 Problem Analysis 3
ETG 3543C Appl Logic Controls 3 ETM 4220 Energy Systems 4
ETI 3116 Appl Eng Qual Assur 3 ETG 3533 C Appl Eng Strength of Mat 4
EST 3543 C Prog Log Control 3 ETG 3541 Appl Mechanics 3
ETI 4836 Space Systems Tech 3

Spring 14 hrs
MAC 2254/2312 Calculus II 3 MAC 2312 Calculus II 3
MAC 2311 MAP 3401 Problem Analysis 3
MAC 2312 Calculus II 3 MAC 2311 MAP 3401 Problem Analysis 3
PHY 2053C College Physics I 3 PHY 2053C College Physics I 3
ETG 3441 Applied Mechanics 3 ETG 3441 Applied Mechanics 3
ETI 3616 Applied Engineering Quality Assurance 3 ETI 3616 Applied Engineering Quality Assurance 3
ETI 4448 Project Management 3 ETI 4448 Project Management 3

Summer 8 hrs

Senior Year

Fall 15 hrs
ETI 3671 Applied Engineering Quality Assurance 3
ETI 3651C Computer Applications 3
ETI 3671 Technical Economic Analysis 3
ETG 3533C Applied Engineering Strength of Materials 4
ETI 3616 Applied Engineering Quality Assurance 3
ETI 3651C Computer Applications 3
ETI 4448 Project Management 3

Spring 13 hrs
ETI 4381 Ground System Design 3
ETI 4150 Spacecraft QA and Testing 3
ETI 4381 Ground System Design 3
ETI 4150 Spacecraft QA and Testing 3
EST 3222 Intro to Photonics 3

UCF Degree Programs
ENGLISH - CREATIVE WRITING (B.A.)
College of Arts and Sciences
English Department, CNH 301,
http://english.ucf.edu
E-mail: english@ucf.edu
T. Krise, 407-823-2212

Admission Requirements: none

Degree Requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each required course.
- Co-op or internship credit 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:

- Application and admission through the English Honors Committee and the Honors College.
- Fulfill University requirements for Honors in the Major.
- Grade of “B” (3.0) or better in 5000 level English elective (3 hrs).
- Directed Readings (3 hrs), and Thesis hours (3 hrs).
- Successful completion and oral defense of honors thesis.

1. UCF General Education Program:

   (36 hrs)
   A. Communication Foundations
   - Select ENC 1101 and ENC 1102
   - Select SPC 1600 Fund of Oral Com
   (6 hrs)

   B. Cultural and Historical Foundations
   - Select one class from 1.B.1 list
   - Select LIT 2110 World Literature I
   - Select LIT 2120 World Literature II
   (3 hrs)

   C. Mathematical Foundations
   - Select MGF 1106 Finite Mathematics
   - Select STA 1060C Statistics Using Excel (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
   ENC 1102* Composition II
   *See Transfer Notes for possible substitutes

3. Core Requirements

   (6 hrs)
   CRW 3013 Creative Writing for English Majors
   ENG 3014 Theory & Tech of Literary Study

   This is a prerequisite for all 4000 level AML, ENG, ENL, or LIT courses.

4. Literary History Requirement

   (12 hrs)
   Choose four courses from these two groupings:

   a. Select at least one of these pre-1865 literature courses.
      - AML 3031 American Literature I
      - AML 3631 Narratives of Slavery
      - ENL 2012 English Literature I
      - ENL 4220 English Renaissance Poetry and Prose
      - ENL 4230 Eighteenth Century Studies
      - ENL 4240 English Romantic Writers
      - ENL 4311 Chaucer
      - ENL 4333 Shakespeare
      - ENL 4341 Milton and His Age

   b. Select at least one of these post 1865 literature courses.
      - AML 3041 American Literature II
      - AML 3283 Contemp American Women’s Fiction
      - AML 3614 Topics in African American Literature
      - AML 3615 Harlem, Haiti, and Havana
      - AML 3640 Native American Literature
      - AML 4101 American Novel
      - AML 4153 American Poetry at Mid-Century
      - AML 4155 Modern American Poetry
      - AML 4261 Literature of the South
      - AML 4265 Florida Writers
      - AML 4321 Modern American Literature
      - AML 4630 Latino/Latina Literature
      - ENL 2022 English Literature II
      - ENL 4101 English Novel
      - ENL 4253 The Victorian Age: Poetry
      - ENL 4262 Nineteenth Century British Prose
      - ENL 4273 Modern British Literature
      - LIT 3082 Continental European Fiction Since 1900
      - LIT 3192 Caribbean Literature
      - LIT 4043 Modern Drama as Literature
      - LIT 4184 Irish Literature
      - LIT 4203 Post-World War II Fiction

Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

5. Restricted Electives

   (18 hrs)
   a. Choose one of the following:
      - LIN 3010 Intro to Linguistics
      - LIN 4100 History of the English Language
      - LIN 4643 Cross Cultural Communication
      - LIN 4660 Linguistics and Literature
      - LIN 4680 Modern English Grammar
      - ENC 3211 Theory and Practice of Tech Writing
      - ENC 3241 Writing for the Technical Professional
      - ENC 3310 Magazine Writing I
      - ENC 3311 Advanced Expository Writing
      - ENG 3010 Practical Criticism
      - LIT 4554 Advanced Feminist Theory

   b. Choose two of the following:
      - CRW 3120 Fiction Writing Workshop
      - CRW 3211 Creative Nonfiction Writing
      - CRW 3310 Poetry Writing Workshop
      - CRW 4122 Adv Fiction Writing Workshop
      - CRW 4224 Adv Creative Nonfiction Writing
      - CRW 4320 Adv Poetry Writing Workshop

   c. Choose two of the following:
      - CRW 3120 Fiction Writing Workshop
      - CRW 3211 Creative Nonfiction Writing
      - CRW 3310 Poetry Writing Workshop
      - CRW 4122 Adv Fiction Writing Workshop
      - CRW 4224 Adv Creative Nonfiction Writing
      - CRW 4320 Adv Poetry Writing Workshop

   d. Choose one of the Post-World War II Fiction

6. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in upper division required courses.
- Computer Competency met by completion of CRW 3013

7. Foreign Language Requirements

   (0-8 hrs)
   Admission: Met by graduation requirement.
   Graduation: Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

8. Electives

   (variable)
   Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
ENGLISH - LITERATURE (B.A.)

College of Arts and Sciences
English Department, CNH 301,
http://english.ucf.edu
E-mail: english@ucf.edu
T. Krise, 407-823-2212

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each required course.
- Co-op or internship credit is not accepted in the major.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department.

Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

Honors in English Degree:

- Additional Requirements (9 hrs)
  - Application and admission through the English Honors Committee and the Honors College
  - Fulfill University requirements for Honors in the Major
  - Grade of "B" (3.0) or better in 5000 level English elective (3 hrs).
  - Directed Readings (3 hrs), and Thesis hours (3 hrs).
  - Successful completion and oral defense of honors thesis

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      - Select ENC 1101 and ENC 1102
      - 6 hrs
   B. Cultural and Historical Foundations
      - Select one class from 1.B.1 list
      - 3 hrs
   C. Mathematical Foundations
      - Select MGF 1106
      - (may substitute a higher level math)
      - 3 hrs
   D. Social Foundations
      - 6 hrs
   E. Science Foundations
      - 6 hrs

2. Common Program Prerequisites
   ENC 1101* Composition I
   ENC 1102* Composition II
   *See Transfer Notes for possible substitutes

3. Core- Gateway Courses (6 hrs)
   a. Prerequisite for all 4000 level AML, ENL, or LIT courses
      - 3 hrs
   b. Choose one gateway course:
      - CRW 3013
      - 3 hrs

4. Literary History Requirement (15 hrs)
   Choose five courses from the two groupings
   a. Select at least two of these pre-1865 literature courses.
      - AML 3041
      - American Literature II
      - 3 hrs
   b. Select at least two of these post 1865 literature courses.
      - AML 3031
      - American Literature II
      - 3 hrs

5. Upper Division Requirements (15 hrs)
   a. Choose one single author or major author course
   - 3 hrs
   Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

6. Senior Year
   Fall
   LIN 4100* req# 5a-ResEl 3
   CRW 4122* req# 5c-ResEl 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3

   Spring
   CRW 3610* req# 5d-ResEl 3
   Elective* Check restrictions 4
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3

   Related Programs: Technical Writing, Literature
   Related Minors: Creative Writing, Literature, Linguistics, Technical Writing, Writing

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites to the BA in Creative Writing if taken prior to transferring to UCF:

- ENC 1101* & 1102*: may use any two lower level courses, taught in the English Department, and each having a 6,000 word requirement. ENC 1101 & 1102, however, are prerequisites for all subsequent English courses and will need to be taken for the major.

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.

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2005-2006 Undergraduate Catalog
6. Departmental Exit Requirements
- Maintain a minimum GPA of 2.0 in upper division required courses.
- Computer Competency met by completion of ENG 3014.

7. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement
Graduation: Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

8. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in 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: Creative Writing, Technical Writing
Related Minors: Creative Writing, Linguistics, Literature, Technical Writing, Writing
Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites to the BA in Literature if taken prior to transferring to UCF:
- ENC 1101* & 1102*: may use any two lower level courses, taught in the English Department, and each having a 6,000 word requirement. However, ENC 1101 & 1102 are prerequisites for all subsequent English courses and will need to be taken for the major.

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 2211 req* 1B1-GEP 3
MGF 1106* req* 1C1-GEP 3
POS 2041* req* 1D1-GEP 3
SPC 1600* req* 1A5-GEP 3
Spring
CHM 1020* req* 1E1-GEP 3
ENG 2102 Composition II 3
LIT 2110 World Literature I 3
STA 1060C Stat Using Excel 3
SPN 1120* req* Lang/Elect 4
Sophomore Year
Fall
BSC 1005* req* 1E2-GEP 3
ENG 3014 Theor Tech of St 3
LIT 2120 World Lit II 3
PSY 2012* req* 1D2-GEP 3
Elective* Check restrictions 3
SPN 1121* req* Lang/Elect 4
Spring
ENG 3014 Theor Tech of St 3
AMT 3041* req* 4b-Hist 3
AMT 3041* req* 4a-Hist 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Junior Year
Fall
ENG 3014 Theor Tech of St 3
LIT 2120 World Lit II 3
PSY 2012* req* 1D2-GEP 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Spring
ENG 3014 Theor Tech of St 3
AMT 3041* req* 4b-Hist 3
AMT 3041* req* 4a-Hist 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Senior Year
Fall
ENG 3014 Theor Tech of St 3
LIT 2120 World Lit II 3
PSY 2012* req* 1D2-GEP 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Spring
ENG 3014 Theor Tech of St 3
AMT 3041* req* 4b-Hist 3
AMT 3041* req* 4a-Hist 3
Elective* Check restrictions 3
Elective* Check restrictions 3

ENGLISH - TECHNICAL WRITING (B.A.)
College of Arts and Sciences
English Department, CNH 301
http://english.ucf.edu
E-mail: english@ucf.edu
T. Krise, 407-823-2212

Admission Requirements
- none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each required course
- Co-op or internship credit cannot be used in this major
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

Honors in English Degree: Additional Requirements (9 hrs)
- Application and admission through the English Honors Committee and the Honors College
- Fulfill University requirements for Honors in the Major
- Grade of “B” (3.0) or better in 5000 level English elective (3 hrs), Directed Readings (3 hrs), and Thesis hours (3 hrs).
- Successful completion and oral defense of honors thesis

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 6 hrs
   Select ENC 101, ENC 102 3 hrs
   Select SPC 1600 Fund of Oral Com 3 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations 6 hrs
   Select MGF 1106 Finite Mathematics 3 hrs
   (may substitute a higher level math)
   Prefer STA 1060C Statistics Using Excel 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites
   ENC 1101* Composition I 3
   ENC 1102* Composition II 3
   *See Transfer Notes for possible substitutes

3. Core courses-Basic (15 hrs)
   ENC 3211 Theory & Practice of Tech Writing 3 hrs
   Choose one of the following: 3 hrs
   ENG 3014 Theory & Tech of Literary Study 3 hrs
   CRW 3013 Creative Writing for English Majors 3 hrs
   Choose three of the following: 9 hrs
   ENL 2012 English Literature I 3
   ENL 2022 English Literature II 3
   AML 3031 American Literature I 3
   AML 3041 American Literature II 3

UCF Degree Programs

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4. Core requirements-Advanced (24 hrs)
   ENC 3311 Advanced Expository Writing 3 hrs
   ENC 4293 Technical Documentation I 3 hrs
   ENC 4294 Technical Documentation II 3 hrs
   ENC 4295 Technical Documentation III 3 hrs
   ENC 4215 Techniques of Tech Publication 3 hrs
   ENC 4218 Visual Elements in Documentation 3 hrs
   ENC 4290 Technical Writing Style 3 hrs
   LIT 4433 Technical and Sci Literature 3 hrs

5. Restricted Upper Division Electives (3 hrs)
   Choose one of the following:
   ENC 4414 Studies in Hypertext
   ENC 4262 International Technical Communication
   ENC 4265 Writing for the Computer Industry
   Optional course ENC 4941 Tech Writing & Editing Internship

6. Departmental Exit Requirements
   ■ Maintain a minimum GPA of 2.0 in upper division required courses
   ■ Computer Competency met by completion of ENC 4293

7. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement
   Graduation: Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

8. Electives (variable)
   Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements
   ■ A 2.0 UCF GPA
   ■ 60 semester hours earned after CLEP awarded
   ■ 48 semester hours of upper division credit completed
   ■ 30 of the last 36 hours of course work must be completed in residency at UCF
   ■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   ■ Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Creative Writing, Literature
Related Minors: Creative Writing, Literature, Linguistics, Technical Writing, Writing

Transfer Notes:
■ Courses taken at community colleges do not substitute for Upper Division courses
■ Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information

Acceptable Substitutes for common program prerequisites to the BA in Technical Writing if taken prior to transferring to UCF:
■ ENC 1101* & 1102*: may use any two lower level courses, taught in the English Department, and each having a 6,000 word requirement. However, ENC 1101 & 1102 are prerequisites for all subsequent English courses and will need to be taken for the major.

ENGLISH LANGUAGE ARTS EDUCATION (B.S.)
College of Education
Department of Teaching and Learning Principles
ED 209; http://pegasus.cc.ucf.edu/~englac
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

Degree Requirements:
■ Students should see an advisor

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
      ENC 1101 Composition I 3 hrs
      ENC 1102 Composition II 3 hrs
      SPC 1600 Fundamentals of Oral Communication 3 hrs
   B. Cultural-Historical Foundations (9 hrs)
      AMH 2010 U.S. History 1492-1877 3 hrs
      AMH 2020 U.S. History 1877-Present 3 hrs
      PHI 2010 Introduction to Philosophy 3 hrs
   C. Mathematical Foundations (6 hrs)
      MGF 1106 Finite Mathematics 3 hrs
      STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics
   D. Social Foundations (6 hrs)
      POS 2041 American National Government 3 hrs
      PSY 2012 General Psychology 3 hrs
   E. Science Foundations (6 hrs)
      PSC 1121 Physical Science 3 hrs
      Select one: ANT 2511 The Human Species or BSC 1005 Biological Principles
   Note: See laboratory component under Section 2.

2. Common Program Prerequisites (25 hrs)
   A. Communications (9 hrs)
      ENC 1101 Composition I GEP
      ENC 1102 Composition II GEP
      SPC 1600 Fundamentals of Oral Communication GEP
   B. Humanities (6 hrs)
      PHI 2010 Introduction to Philosophy GEP
      Select one: ARH 2050 History of Western Art I or ARH 2051 History of Western Art II 3 hrs
      MUL 2010 Enjoyment of Music or THE 2000 Theatre Survey or FIL 2490 History of Motion Pictures
   C. Mathematics (9 hrs)
      MAC 1105 College Algebra 3 hrs
      MGF 1106 Finite Mathematics GEP
      One of the following (per GEP):
      STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics
   D. Social Science/History (12 hrs)
      AMH 2010 U.S. History 1492-1877 GEP
      AMH 2020 U.S. History 1877-Present GEP
      POS 2041 American National Government GEP
      PSY 2012 General Psychology GEP
   E. Science (9 hrs + lab)
      PSC 1121 Physical Science GEP
      Select one: ANT 2511 The Human Species or BSC 1005 Biological Principles
      One of the following (per GEP):
      STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics
      Select one: ARH 2050 History of Western Art I or ARH 2051 History of Western Art II 3 hrs
      MUL 2010 Enjoyment of Music or THE 2000 Theatre Survey or FIL 2490 History of Motion Pictures
      One of the following (per GEP):
      ANT 2511 The Human Species or BSC 1005 Biological Principles
      BSC 1005L Biological Principles Laboratory or
### University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### Total Semester Hours Required
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.

### Recommended Four-Year Sequence of Courses
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### Recommended Four-Year Sequence of Courses (continued)

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**ENVIROMENTAL ENGINEERING (B.S.Env.E.)**

**College of Engineering and Computer Science**

**Civil & Environmental Engineering Department (CEE), ENG2 211, 407-823-2841, Fax: 407-823-3315, http://www.cee.engr.ucf.edu**

Undergraduate Coordinator and Academic Advisor: Carol Ann Pohl, E-Mail: cpohl@mail.ucf.edu

Associate Chair: Amr A. Oluofa, E-Mail: aoloufa@mail.ucf.edu

**Admission Requirements:**

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

**Degree Requirements:**

Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for (38 hrs)
UCF Degree Programs

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. and B. above. English students pursuing engineering should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations 9 hrs
1. Take ENC 1101
2. Take ENC 1102
3. Take SPC 1016

B. Cultural and Historical Foundations 7 hrs
1. Take MAC 2311, Calculus with Analytic Geometry I, (4 hrs).
   Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
2. Take STA 3023 (3 hrs)
   Note: Calculus II is the prerequisite for this course.

D. Social Foundations 6 hrs
1. Take ECO 2013 or ECO 2023.
3. Take PHY 2048/48L.

E. Science Foundations 7 hrs
1. Take PHY 2048/48L.
2. Take one from Earth Science (GLY 1030 or GEO 1200 or GEO 2370) or Biological Science (BSC 1055 or BSC 1050).
   [Note: Environmental Engineering Majors must satisfy both an Earth Science requirement AND a Biological Science requirement.

2. Common Program Prerequisites (CPP's) (19 hrs)

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHM 2045C/45L Chemistry Fundamentals I 4 hrs
MAC 2311 Calculus with Analytic Geometry I 4 hrs
MAC 2312 Calculus with Analytic Geometry II 4 hrs
MAC 2313 Calculus with Analytic Geometry III 4 hrs
MAP 2302 Differential Equations 3 hrs
PHY 2048/48L Physics for Engineers & Scientists I GEP
PHY 2049/49L Physics for Engineers & Scientists II GEP
ENC 1101 Composition I GEP
ENC 1102 Composition II GEP

Humansities Courses

Social Science Courses

Humansities or Social Sciences

3. Courses Required for the Major (60 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing their courses, along with technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1007C Engineering Concepts & Methods 1 hr
CHM 2045C/45L Chemistry Fundamentals III w/ Lab 4 hrs
EGN 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics 3 hrs
EGN 3331 Mechanics of Materials 3 hrs
EGN 3343 Thermodynamics 3 hrs
EGN 3362 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 3023 Probability & Statistics for Engineers 3 hrs
CWR 3201C Hydrology 3 hrs
CWR 4203C Hydraulics 3 hrs
EES 4111C Biological Process Control 3 hrs
EES 4102C Chemical Process Control 3 hrs
ENV 4120 Air Pollution Control 3 hrs
ENV 4341 Solid Waste Management 3 hrs
ENV 4611 Environmental Engineering Process Design 4 hrs
ENV 4563 Environmental Control Systems 3 hrs

Note: Environmental engineering majors must complete both Earth Science and Biological Science coursework. See assigned academic advisor for list of approved courses.

4. Approved Technical Electives (5 hrs)

Technical electives are available in the BSEnvE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)

 Approved EnvE Design Course I 3 hrs
 Approved EnvE Design Course II 3 hrs
 Earn a minimum graduating GPA of 2.250 in 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 Exam during their Senior year.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. University Minimum Graduation Requirements

A 2.0 UCF GPA.
60 semester hours earned after any CLEP award.
48 semester hours of upper division credit completed.
30 of the last 36 hours of course work must be completed in residency at UCF.
25% of course work must be completed in residency at UCF.
A 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 semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Chemistry, Civil Engineering.
Related Minors: Chemistry, Environmental Studies, Mathematics.

Transfer Notes:
Courses taken from Community Colleges do not substitute for Upper Division Courses.
Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Environmental Engineering - 128 semester hours required

<table>
<thead>
<tr>
<th>FIRST 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 English Comp I</td>
<td>3</td>
<td>*ENC 1102 English Comp II</td>
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<tr>
<td>*MAC 2311 Calc w/Analy Geo I</td>
<td>4</td>
<td>*MAC 2312 Calc w/Analy Geo II</td>
<td>4</td>
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<tr>
<td>*ECO 2013 Macroeconomics</td>
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<td>*PHY 2048/L Phys Engr I w/lab</td>
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<tr>
<td>Approved EnvE Design Courses I</td>
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<td>*CHM 2045C Intro to Engr</td>
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<tr>
<th>SECOND YEAR</th>
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<tr>
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<td>*MAP 2302 Diff Equations</td>
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<td>*CHM 2045C Chemistry Funds I</td>
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<td>*CHM 2046C Chem Fund III</td>
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<td>*HUM/AMH/EUH I</td>
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<td>*PHY 2049/L Phys Engr &amp;Sci II</td>
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<tr>
<td>EGN 3310 Engr Anal-Statics</td>
<td>3</td>
<td>*HUM/AMH/EUH II</td>
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<tr>
<td>EGN 3613 Engr'ing Econ Anal</td>
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<td>EGN 3321 Engr Anal-Dynamics</td>
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<td>*SPC 1016 Tech Presentations</td>
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<table>
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<tr>
<th>SUMMER</th>
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<tr>
<td>* Biological Science</td>
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<tr>
<td>EGN 3343 Thermodynamics</td>
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<td>ENV 3001 Intro to Environ Eng</td>
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<table>
<thead>
<tr>
<th>THIRD YEAR</th>
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<tbody>
<tr>
<td>CWR 3201 Engr Fluid Mech</td>
<td>3</td>
<td>CWR 4101C Hydrology</td>
<td>3</td>
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<tr>
<td>EGN 3331 Mech of Materials</td>
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<td>CWR 4203C Hydraulics</td>
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</tbody>
</table>
ST3 302: Principles of Engineering (3 hrs)
EN3 431: Solid and Hazardous Waste (3 hrs)
CCE 4003: Intro to Constr Indus (3 hrs)

FALL YEAR

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.

ENVIRONMENTAL STUDIES TRACK
See Liberal Studies – Environmental Studies Track

EXCEPTIONAL STUDENT EDUCATION (B.S.)
College of Education
Department of Child, Family and Community Sciences
ED 209
http://www.edcollege.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 must consult with an advisor.
- Students must earn at least a "C" in each required Exceptional Education course.
- The courses designated in (General Education) and (Exceptional Education) should usually be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
   ENC 1101: Composition I (3 hrs)
   ENC 1102: Composition II (3 hrs)
   SPC 1600: Fundamentals of Oral Communication (3 hrs)
   B. Cultural-Historical Foundations* (6 hrs)
   AMH 2010: U.S. History 1492-1877 (3 hrs)
   AMH 2020: U.S. History 1877-Present (3 hrs)
   PHI 2010: Introduction to Philosophy (3 hrs)
   C. Mathematical Foundations (6 hrs)
   MGF 1106: Finite Mathematics (3 hrs)
   STA 2014C: Principles of Statistics (3 hrs)
   D. Social Science/History (12 hrs)
   PSC 1121: Physical Science (3 hrs)
   EEX 3243: Methods of Academic Skills Ex Ed (3 hrs)
   EEX 4054: Application and Theories for Students with Special Needs (3 hrs)

2. UCF General Education Program Prerequisites (15 hrs)
   A. Enclosures
   ENC 1101: Composition I (3 hrs)
   ENC 1102: Composition II (3 hrs)
   SPC 1600: Fundamentals of Oral Communication (3 hrs)
   B. Humanities
   PHI 2010: Introduction to Philosophy (3 hrs)
   Select one:
   ARH 2050: The History of Art I or
   ARH 2051: The History of Art II or
   MUL 2100: Enjoyment of Music or
   THE 2000: Theatre Survey or
   FIL 2400: History of Motion Pictures

C. Mathematics (9 hrs)
   MAC 2311: Calculus I (3 hrs)
   MAC 2312: Calculus II (3 hrs)
   MAC 2313: Calculus III (3 hrs)
   STA 2023: Introduction to Probability and Statistics (3 hrs)

D. Social Science/History (12 hrs)
   AMH 2010: U.S. History 1492-1877 (3 hrs)
   AMH 2020: U.S. History 1877-Present (3 hrs)
   POS 2041: American National Government (3 hrs)
   PSY 2012: General Psychology (3 hrs)
   STA 2014C: Principles of Statistics (3 hrs)
   STA 2023: Introduction to Probability and Statistics (3 hrs)

E. Science (9 hrs + lab)
   PSC 1121: Physical Science (3 hrs)
   EEX 3243: Methods of Academic Skills Ex Ed (3 hrs)
   EEX 4054: Application and Theories for Students with Special Needs (3 hrs)
   EEX 4066: Curriculum and Instructional Strategies for Special Needs Students (3 hrs)
   EEX 4214: Classroom Learning Principles (3 hrs)

3. Exceptional Education Preprofessional Requirements (7 hrs)
   EEX 2010: Orientation to Special Education (3 hrs)
   MAE 2081: Elementary School Mathematics (3 hrs)

4. Education Core Requirements (33 hrs)
   RED 3012: Basic Foundations of Reading (3 hrs)
   EXG 2021: Introduction to Special Education (3 hrs)
   EEX 3241: Methods of Academic Skills Ex Ed (3 hrs)
   TSL 4080: Theory and Practice of Teaching ESOL (3 hrs)

5. Specialization Core Requirements (33 hrs)
   RED 3012: Basic Foundations of Reading (3 hrs)
   RED 4159: Diagnostic and Corrective Reading (3 hrs)
   RED 4043: Content Reading K-12 (3 hrs)
   LAE 4314: Language Arts in Elem. Schools (3 hrs)
   TSL 4080: Theory and Practice of Teaching ESOL (3 hrs)
   EEX 4066: Curriculum and Instructional Strategies for Special Needs Students (3 hrs)
   EEX 4214: Classroom Learning Principles (3 hrs)

6. Specialization (5 hrs)
   EEX 4054: Application and Theories for Students with Special Needs (2 hrs)
   EEX 4066: Curriculum and Instructional Strategies for Special Needs Students (3 hrs)

Internship Requirements
- The following courses must be taken before registering for Internship I. Students must be recommended by the faculty for Internship I.
- EDG 4323: Professional Teaching Practices (3 hrs)
- EEX 4066: Curriculum and Instructional Strategies for Special Needs Students (3 hrs)
- TSL 4080: Theory and Practice of Teaching ESOL (3 hrs)
- EEX 4214: Classroom Learning Principles (3 hrs)
- EEX 4390: Internship I (3 hrs)
- EEX 4941: Internship II (9 hrs)
UCF Degree Programs

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 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**

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<tr>
<th>Fall</th>
<th>Spring</th>
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<td>EDF 2005</td>
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<tr>
<td>ENC 1101</td>
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<td>MGF 1106</td>
<td>3 hrs</td>
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<tr>
<td>PSY 2012</td>
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<td></td>
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<tr>
<td>Summer</td>
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**Sophomore Year**

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<tr>
<td>AMH 2010</td>
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<tr>
<td>BSC 1005</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPC 1000</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 2014C</td>
<td>3 hrs</td>
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<tr>
<td>Select one Arts &amp; Sciences elective course</td>
<td>3 hrs</td>
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<tr>
<td>Select one of the following Fine Arts courses: ARH 2050; ARH 2051; MUL 2010; THE 2000; FIL 2400</td>
<td>3 hrs</td>
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<tr>
<td>Summer</td>
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**Junior Year**

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>EDF 4023*</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EDF 4214**</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEX 3241*</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RED 3012*</td>
<td>3 hr</td>
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**Senior Year**

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<tr>
<td>EEX 3940</td>
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<tr>
<td>EEX 4001++</td>
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<tr>
<td>EEX 4211</td>
<td>3 hrs</td>
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<tr>
<td>RED 4519</td>
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</tr>
</tbody>
</table>

**FILM - B.F.A.**

**College of Arts and Sciences**

**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 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 major are required by December 31 for admission to the subsequent Fall term
- A portfolio review is required for entry into the Film 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**
- A. Communication Foundations (9 hrs)
- B. Cultural and Historical Foundations (6 hrs)
  - Select one class from either 1.B.1 or 1.B.2 (3 hrs)
  - Select one class from either 1.B.1 or 1.B.2 (3 hrs)
- C. Mathematical Foundations (3 hrs)
  - Select MGF 1106 Finite Mathematics (may substitute a higher level math) (3 hrs)
  - Prefer CGS 1060C Intro to Computer Sci or STA 1060C Statistics Using Excel (3 hrs)
- D. Social Foundations (6 hrs)
- E. Science Foundations (6 hrs)

**2. Common Program Prerequisites**
- FIL 2400* History of the Motion Pictures (3 hrs)
- FIL 1007 History of the Motion Pictures GEP
- FIL 1007* Foundations of Story (3 hrs)
- *See transfer notes for possible substitutions

**3. Lower Level Core Requirements**
- FIL 2107 Screen Analysis (3 hrs)
- FIL 1008 Cinematic Expression/Aesthetic (3 hrs)
- FIL 2724C Editing I (3 hrs)
- FIL 2220 Directing I (3 hrs)
- FIL 2230 Cinematography I (3 hrs)
- FIL 2221 Acting for Film I (3 hrs)

**4. Upper Level Core Requirements**
- FIL 3922 Film Colloquium (Six semesters of Colloquium required at 1 hr each)
5. Upper Level Restricted Electives (15 hrs)
Select five courses from the following. Must complete all core requirements before taking these courses. A maximum of six hours of Independent Study may be substituted with advisor's prior approval.

**Production/Direction**
- FIL 3625 Interactive Entertainment
- FIL 4210C Cinematography II
- FIL 4293C Sound Design II
- FIL 4294 Sound Design III
- FIL 4294C Editing II
- FIL 3300C Film Documentary
- FIL 4228 Directing III

**Screen Writing**
- FIL 4103 Adaptation
- FIL 4112C Feature/TV Writing II
- FIL 4113C Interactive Writing I
- FIL 4114C Interactive Writing II
- FIL 4500C Genre Writing

**Cinema Studies**
- FIL 3520 Italian Film
- FIL 3521 French Film
- FIL 3522 German Film
- FIL 3551 American Cinema
- FIL 3412 Black Cinema
- FIL 3309 Women in Film
- FIL 3504C Film Theory and Criticism II

**Digital Cinema**
- ART 2820 Art as Interface
- ART 3613C Post-Production Design
- DIG 3135C Digital Imaging
- IDS 3701C Internet Software Design
- DIG 4780 Modeling for Realtime Graphics
- MUC 3311 MIDI Sequencing I
- COP 3920C Computer Science I
- ENC 4415 Digital Rhetoric & Modern Dialectic

6. Capstone Courses (6 hrs)
- FIL 4210C Capstone I 3 hrs
- FIL 4211C Capstone II 3 hrs

7. Departmental Exit Requirements
- A student must maintain an overall average of "B" (3.0) or better in major courses.
- Computer competency must be achieved by the end of the Common Program Prerequisites.
- 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 Foreign Languages and Literatures. 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, Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

**FILM - CINEMA STUDIES TRACK (B.A.)**

**College of Arts and Sciences**
**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.
- All students are required to pay a fee for equipment insurance.
- 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 |
| Cultural and Historical Foundations | 3 hrs |
| Select one course from 1.B.1 list | 3 hrs |
| Select FIL2400 History of Motion Pictures | 3 hrs |
| Select one course from 1.B.1 or 1.B.2 list | 3 hrs |
| Mathematical Foundations | 3 hrs |
| Select MGF 1106 Finite Mathematics (may substitute a higher level math) | 3 hrs |
| Prefer CGS 1060C Intro to Computer Sci or STA 2006C Statistics Using Excel | 3 hrs |
| Social Foundations | 6 hrs |
| Science Foundations | 6 hrs |

**2. Common Program Prerequisites** (3 hrs)

| FIL 2400* History of the Motion Pictures GEP | 3 hrs |
| FIL 1007* Foundations of Story | 3 hrs |
| *see Transfer Notes for possible substitutes |

**3. Core Requirements** (42 hrs)

| Select one course | 3 hrs |
| FIL 3124 Short Script | 3 hrs |
| FIL 3102 Writing for Film and TV | 3 hrs |
| FIL 2107 Script Analysis | 3 hrs |
| FIL 2224C Foundations of Production | 3 hrs |
| FIL 3006 Art of the Cinema | 3 hrs |
| FIL 3525C Cinematic Expression/Aesthetics | 3 hrs |
| FIL 3300C Film Documentary | 3 hrs |
| FIL 2401 Film History I | 3 hrs |
4. Restricted Upper Division Electives (12 hrs)

Select from the following upper level FIL courses:

- FIL 3402 Film History II
- FIL 3418 Avante-Garde Cinema
- FIL 3503C Film Theory and Criticism I
- FIL 3504C Film Theory and Criticism II
- FIL 3510 World Cinema Traditions
- FIL 3551 American Cinema
- FIL 4604 The Film Producer
- FIL 5609 Film and Internet Business

(a maximum of 6 hours independent study may be used)

5. Required Minor (18 hrs min)

(a maximum of 6 hours independent study may be used)

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 Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)

Select primarily from upper 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 subsequent Film courses and still must be taken.
- FIL 1007 may use any introductory course. However, FIL 1007 is a prerequisite for all Cinema Studies courses and must be taken.
FIL 2400 may substitute FIL 1001, but FIL 2400 is a prerequisite.

Acceptable Substitutes

Asian Studies
African American Studies, Women Studies, Latin American Studies, Related Minors
Writing, Film, Digital Media, Music, Radio/TV, Theatre.

Complete the General Education Program, the Gordon Rule, the A maximum of 45 hours of extension, correspondence, CLEP, 60 semester hours earned after CLEP awarded

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).

Related Programs: Animation, Art, Cinema Studies, Creative Writing, Film, Digital Media, Music, Radio/TV, Theatre.
Related Minors: Cinema Studies, Creative Writing, Digital Media, African American Studies, Women Studies, Latin American Studies, Asian Studies

Transfer Notes:

Courses taken at community colleges do not substitute for Upper Division courses.
Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

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.

FINANCE (B.S.B.A.)
College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu/finance

Admissions Requirements

Completion of the UCF General Education Program or an AA degree from a Florida Public Community College
See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (36 hrs)

A. Communications Foundations
   Required: SPC 1600

B. Cultural and Historical Foundations
   Select MAC 1105 College Algebra
   Select CGS 2100C Comp Fundamentals for Bus
   Select GED 3010 Legal & Ethical Environments of Business

C. Mathematical Foundations

Select two of the following:*

ACG 2071 Principles of Managerial Accounting
ECO 3401 Quantitative Business Tools I
GGS 1060C Computer Fundamentals for Business

*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.

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
GGS 3401 Essentials of Business Tools I

3. Required for All Business Majors

Common Body of Knowledge
First or subsequent semesters depending on major:

BUL 3130 Legal & Ethical Environments of Business
ECO 3411 Quantitative Business Tools II
FIN 3403 Business Finance
MAN 3025 Management of Organizations
ISM 3011 Essentials of Management Information Systems
MAR 3023 Marketing

Second Semester:

Select one: PSY 2012, SYG 2000, ANT 2000

Select two of the following:*

FIN 3504 Investment Analysis
FIN 4453 Financial Models

Select two of the following:*

FIN 3313 Management of Financial Institutions
FIN 4324 Commercial Bank Management
FIN 4514 Portfolio Analysis and Management
FIN 4521C Applied Portfolio Management I
FIN 4522C Applied Portfolio Management II
FIN 4533 Financial Derivatives
FIN 4604 International Financial Management
FIN 4424 Adv Topics in Financial Management

5. Required Courses (18 hrs)

FIN 3303 Financial Markets
FIN 3414 Intermediate Corporate Finance
FIN 3504 Investment Analysis
FIN 4453 Financial Models

Select two of the following:*

FIN 3313 Management of Financial Institutions
FIN 4324 Commercial Bank Management
FIN 4514 Portfolio Analysis and Management
FIN 4521C Applied Portfolio Management I
FIN 4522C Applied Portfolio Management II
FIN 4533 Financial Derivatives
FIN 4604 International Financial Management
FIN 4424 Adv Topics in Financial Management

6. Restricted Electives (9 hrs)

Select three of the following:* (9 hrs)

ACG 3131 Financial Accounting Concepts
ACG 3141 Intermediate Financial Accounting
ACG 3361 Intermediate Managerial Accounting
ECO 4412 Economic Statistics and Econometrics
FIN 3470 Financial Statement Analysis
FIN 4313 Management of Financial Institutions
FIN 4324 Commercial Bank Management
FIN 4424 Adv Topics in Financial Management
FIN 4514 Portfolio Analysis and Management
FIN 4533 Financial Derivatives
FIN 4604 International Financial Management
FIN 4730 Senior Financial Consulting I
FIN 4731 Senior Financial Consulting II
FIN 4906 Independent Study

UCF Degree Programs

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UCF Degree Programs

FIN 4941 Internship 3 hrs
MAR 3391 Professional Selling 3 hrs
REE 3043 Fundamentals of Real Estate 3 hrs
REE 3433 Real Estate Law 3 hrs
REE 4103 Real Estate Appraisal 3 hrs
REE 4204 Real Estate Finance 3 hrs
REE 4303 Real Estate Investment Analysis 3 hrs
REE 4712 Real Estate Development 3 hrs
RMI 3011 Principles of Risk and Insurance 3 hrs
TAX 4001 Federal Income Tax I 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 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. Electives*** (variable)

Total Semester Hours Required 120 hours

Community/Junior College Transfer Notes
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Professional courses should not be taken at a community/junior college 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
ENC 1101 3 3 ENC 1102 GEP
Cul-Hist I* 3 3 Cul-Hist II* 3
SPC 1600 3 3 Art/Music/Lit 3
***Elective 3 3 MAC 1105 3
***Elective 3 3 CSS 2100C* 3
Must complete nine hours in a summer semester

Sophomore
1st Term 15 hrs 2nd Term 15 hrs
ECO 2023* 3 3 ECO 2013* 3
ACG 2021 3 3 ACG 2071* 3
Science 3 3 Science 3

Psv/Soc/Ant 3 3 **Elective 3
***Elective 3 3 ECO 3401* 3
Junior
1st Term 15 hrs 2nd Term 15 hrs
**GEB 3031 6 FIN 3303 3
GEB 3356 3 FIN 3414 3
MAC 2023 3 ECO 3411 3
FIN 3403 3 MAN 3025 3
FIN 3404 3 MAN 4720 3
ISM 3011 3 **Elective 3
FIN Elective 3 FIN 4453 3
FIN Elective 3 FIN Elective 3
FIN Elective 3 FIN Elective 3
***General electives as required to reach 120 semester hours. The department recommends completing FIN 2104 (Personal Finance) prior to the junior year.

FOREIGN LANGUAGE EDUCATION- FRENCH (B.S.)
College of Education
Degree Requirements:
-Complete 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

1. UCF General Education Program (36 hrs)
A. Communication Foundations
ENC 1101 Composition I 3 hrs
ENC 1102 Composition II 3 hrs
SPC 1600 Fundamentals of Oral Communication 3 hrs
B. Cultural-Historical Foundations
AMH 2010 U.S. History 1492-1877 3 hrs
AMH 2020 U.S. History 1877-Present 3 hrs
PHI 2010 Introduction to Philosophy 3 hrs
C. Mathematical Foundations
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
POS 2041 American National Government 3 hrs
PSY 2012 General Psychology 3 hrs
E. Science Foundations
PSC 1121 Physical Science 3 hrs
Select one: 3 hrs
ANT 2511 The Human Species or
BSC 1005 Biological Principles
Note: See laboratory component under Section 2.

2. Common Program Prerequisites (25 hrs)
A. Communications
ENC 1101 Composition I GEP
ENC 1102 Composition II GEP
SPC 1600 Fundamentals of Oral Communication GEP
B. Humanities
PHI 2010 Introduction to Philosophy GEP
Select one: 3 hrs
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
C. Mathematics
MAC 1105 College Algebra 3 hrs
MGF 1106 Finite Mathematics GEP
One of the following (per GEP)

**Education Core Requirements (15 hrs)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 4323</td>
<td>Professional Teaching Practices</td>
<td>3</td>
</tr>
<tr>
<td>EDF 4603</td>
<td>Analysis of Critical Issues in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 4214</td>
<td>Classroom Learning Principles</td>
<td>3</td>
</tr>
<tr>
<td>TSL 4080</td>
<td>Theory and Practice of Teaching ESOL</td>
<td>3</td>
</tr>
<tr>
<td>RED 4043</td>
<td>Content Reading K-12</td>
<td>3</td>
</tr>
</tbody>
</table>

4. **Internship I (ESE3940)** (3 hrs)

- Program Internship I Prerequisites: EDG 4323, EDF 4214, ELE 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)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLE 4333</td>
<td>For Lang Tch in the Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>FLE 4314</td>
<td>For Lang Tch in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>FRE 3300</td>
<td>French Grammar</td>
<td>3</td>
</tr>
<tr>
<td>FRE 3420</td>
<td>French Composition</td>
<td>3</td>
</tr>
<tr>
<td>FRE 3760</td>
<td>Advanced French Oral Composition</td>
<td>3</td>
</tr>
<tr>
<td>FRW 3100</td>
<td>Survey of French Literature I</td>
<td>3</td>
</tr>
<tr>
<td>FRW 3101</td>
<td>Survey of French Literature II</td>
<td>3</td>
</tr>
</tbody>
</table>

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 4500: French Civilization and Culture
- Any FRW 3/4XXX with Advisor’s approval.

7. **Other Cognate Requirements (3 hrs)**

Select one of the following: 3 hrs

- FRE 3760: French Phonetics and Diction
- LIN 4643: Cross-Cultural Communication

8. **Internship II (ESE4943)** (12 hrs)

- At least 80% of all required foreign language courses and all methods courses must be completed before doing Internship II.
- See additional requirements under College of Education, Office of Clinical Experiences.
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

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**

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>Freshman</td>
<td>(15 hrs)</td>
<td>(12 hrs)</td>
</tr>
<tr>
<td>EDF 2005</td>
<td>3 hrs</td>
<td>EGD 2701</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>PSY 2012</td>
<td>3 hrs</td>
<td>POS 2041</td>
</tr>
<tr>
<td>FLE 3014</td>
<td>3 hrs</td>
<td>FLE 4314</td>
</tr>
<tr>
<td>FLE 4333</td>
<td>3 hrs</td>
<td>FLE 4333</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Sophomore</th>
<th>(16 hrs)</th>
<th>(16 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 4214</td>
<td>3 hrs</td>
<td>FLE 3300</td>
</tr>
<tr>
<td>EDF 4323</td>
<td>3 hrs</td>
<td>FRE 3300</td>
</tr>
<tr>
<td>FRE 3420</td>
<td>3 hrs</td>
<td>FRE 3420</td>
</tr>
<tr>
<td>FRW 3100</td>
<td>3 hrs</td>
<td>FRW 3100</td>
</tr>
<tr>
<td>ARH 2050</td>
<td>3 hrs</td>
<td>THE 2003</td>
</tr>
<tr>
<td>STA 2014C</td>
<td>3 hrs</td>
<td>MUL 2010</td>
</tr>
<tr>
<td>PHI 2010</td>
<td>3 hrs</td>
<td>FLY 2020</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior</th>
<th>(12 hrs)</th>
<th>(12 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 4603</td>
<td>3 hrs</td>
<td>ESE 4943</td>
</tr>
<tr>
<td>ESE 3940</td>
<td>3 hrs</td>
<td>Upper division restricted elective (FRE/FRW 3/4XXX)</td>
</tr>
<tr>
<td>Select one:</td>
<td>3 hrs</td>
<td>Select one:</td>
</tr>
<tr>
<td>FRE 3760</td>
<td>3 hrs</td>
<td>LIN 4643</td>
</tr>
</tbody>
</table>

UCF Degree Programs
FOREIGN LANGUAGE EDUCATION- SPANISH (B.S.)

College of Education
Department of Teaching and Learning Principles

ED 209
http://www.edcollege.ucf.edu/
Program Coordinator: Dr. Karen Verkler
ED 220-C, 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

1. UCF General Education Program (36 hrs)

A. Communication Foundations (9 hrs)
ENC 1101 Composition I 3 hrs
ENC 1102 Composition II 3 hrs
SPC 1600 Fundamentals of Oral Communication 3 hrs

B. Cultural-Historical Foundations (9 hrs)
AMH 2010 U.S. History 1877-Present 3 hrs
PHI 2010 Introduction to Philosophy 3 hrs

C. Mathematical Foundations (6 hrs)
MGF 1106 Finite Mathematics 3 hrs
Select one:
STA 100C Basic Statistics using MS Excel or
STA 2014C Principles of Statistics 3 hrs

D. Social Foundations (6 hrs)
POS 2041 American National Government 3 hrs
PSY 2012 General Psychology 3 hrs

E. Science Foundations (6 hrs)
PSC 1121 Physical Science 3 hrs
Select one:
ANT 2511 The Human Species or
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 3 hrs
ENC 1102 Composition II 3 hrs
SPC 1600 Fundamentals of Oral Communication 3 hrs

B. Humanities (6 hrs)
PHI 2010 Introduction to Philosophy 3 hrs
Select one:
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

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 100C Basic Statistics using MS Excel or
STA 2014C Principles of Statistics

D. Social Science/History (12 hrs)
AMH 2010 U.S. History 1492-1877 GEP
AMH 2020 U.S. History 1877-Present GEP
POS 2041 American National Government GEP
PSY 2012 General Psychology GEP

E. Science (9 hrs + lab)
PSC 1121 Physical Science 3 hrs
One of the following (per GEP) 3 hrs
ANT 2511 The Human Species or
BSC 1005 Biological Principles
Select one:
AST 2002 Astronomy or
GES 1200 Physical Geography or
GLY 1030 Geology and its Applications 1 hr
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 3040 Technology for Educators 3 hrs

G. Diversity Courses

H. Other Program Prerequisites (6 hrs)

SPN 2231 Intermediate Spanish Lang and Civ I 3 hrs
SPN 2232 Intermediate Spanish Lang and Civ II 3 hrs
SPN 3233 Advanced Directed Readings (may be taken in place of SPN 2231 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: EDG 4323, EDF 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 3750 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 4410 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 4952 Bilingualism
SPN 4800 Spanish-American Syntax
SPN 4801 Spanish Morphosyntax

8. Internship II (ESE4943) (12 hrs)

■ At least 80% of all required foreign language courses and all methods courses must be completed before doing Internship II
■ See additional requirements under College of Education, Office of Clinical Experiences
■ Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

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.

E-mail: ED 220-C, 407-823-5235
Program Coordinator: Dr. Karen Verkler
Department of Teaching and Learning Principles
College of Education
University of Central Florida
2005-2006 Undergraduate Catalog
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  EDG 2701 3 hrs
ENC 1101 3 hrs  ENC 1102 3 hrs
MGF 1106 3 hrs  MAC 1105 3 hrs
PSY 2012 3 hrs  POS 2041 3 hrs
PSC 1121 3 hrs  PSC 1121L 1 hr

Summer (6 hrs)
EME 2040 3 hrs
PHI 2010 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  SPN 2231 or 3 hrs
SPN 2230 3 hrs  SPN 2232 with 3 hrs
STA 2014C 3 hrs  advisor’s consent 3 hrs
CHS 3530C 4 hrs  ARH 2050 or 3 hrs

Summer (3 hrs)
TSL 4080 3 hrs

Junior Year
Fall (15 hrs)  Spring (12 hrs)
EDF 4214 3 hrs  RED 4043 3 hrs
EDG 4323 3 hrs  SPW 3101 or 3 hrs
SPN 3300 3 hrs  SPW 3131 3 hrs
SPN 3420 3 hrs  Cognate elective 3 hrs
SPW 3760 3 hrs  Upper division restricted electives 6 hrs
SPW 3800 or unrestricted electives 3 hrs
PSC 1121 3 hrs

Senior Year
Fall (12 hrs)  Spring (12 hrs)
EDF 4603 3 hrs  ESE 4943 12 hrs
ESM 3940 3 hrs  SPW 3101 or 3 hrs
SPW 3131 3 hrs
Upper division restricted elective (SPW 4XXX) 3 hrs

1. UCF General Education Program 39 hrs
A. Communication Foundations
Select ENC 1101, ENC 1102 6 hrs
Select SPC 1016 Tech Presentations 3 hrs
B. Cultural and Historical Foundations
Select MAC 2311 Calculus I & Analy Geo I 3 hrs
Select STA 2023 Statistical Methods I 3 hrs
C. Mathematical Foundations
Select MAC 2311 Calculus I & Analy Geo I 3 hrs
Select STA 2023 Statistical Methods I 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations
Select PHY 2048 & L Phys Engr & Sci I 4 hrs
Select L & MAC 2311 4 hrs
Select BSC 2010C Biology I 4 hrs

2. Common Program Prerequisites 16 hrs
BSC 2010C  Biology I  GEP
CHM 2045C  Chem Fund I  4 hrs
CHM 2046 & L  Chem Fund II with Lab 4 hrs
MAC 2311  Calculus I & Analy Geo I  GEP
MAC 2312  Calculus II & Analy Geo II  4 hrs
PHY 2048 & L*  Physics Engr. I & Lab  4 hrs
PHY 2049 & L*  Physics Engr. & Sci. II & Lab  4 hrs

3. Core Science and Math Requirements 21 hrs
BSC 2010C  Biology I  GEP
CHM 2210  Organic Chem. I  3 hrs
CHM 2211 & L  Organic Chem II with lab 5 hrs
CHM 3120C  Analytical Chemistry  5 hrs
STA 2023  Statistical Methods I  GEP
PCB 3063 & L  Genetics  4 hrs
PCB 3233 & L  Immunology  4 hrs
MAC 2311  Calculus I & Analy Geo I  4 hrs
MAC 2312  Calculus II & Analy Geo II  4 hrs
PHY 2048 & L*  Physics Engr. I & Lab  4 hrs
PHY 2049 & L*  Physics Engr. & Sci. II & Lab  4 hrs

4. Forensic Science Core 19 hrs
CHS 3501  Intro to Forensic Science  3 hrs
CHS 3505C  Forensic Microscopy  4 hrs
CHS 4377  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 Science Analysis Track 27 hrs
a. Required Courses 15 hrs
CHM 3422  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
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 department 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.
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF.

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation: none

8. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required 124 hours

Related Programs: Chemistry, Forensic 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 & 2312*: Although MAC 2353 & 2354 will satisfy the CPP, MAC 2311 & 2312 are required in the major and still must be taken.
- PHY 2048 & Lab* and 2049 & Lab*: Although CPP requirements permit substitution by Organic Chemistry (CHM 2210 & 2211), PHY 2048 & L, PHY 2049 & L, CHM 245, and CHM 2046 are required for graduation, so all must be taken.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer
Chem test See catalog 0
Math test See catalog 0

Freshman Year
Fall
BSB 2010C Biology I 4
MAC 2311 Calc Anal Geo I 4
CH 2231 Organic Chem I 3
Spring
PHY 2048 Phys for Eng Sci I 3
CH 2405 Chemistry Fund I 3

Sophomore Year
Fall
MUL 2010* req# 1B-2GEP 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
CH 2210 Organic Chem I 3
Spring
EUA 2001* req# 1B-2GEP 3
CH 2211L Organic L Tech I 2
CH 2212L Organic L Tech II 1

Junior Year
Fall
CH 3120C Analy Chemistry 5
PCB 3063 Genetics 3
PCB 3063L Genetics L 1
CHS 3505C Forensic Mic 4
CHS 4537 For L Qual Assur 2
Spring
EUA 2001* req# 1B-2GEP 3
CH 2211L Organic L Tech I 2
CH 2212L Organic L Tech II 1
CHS 3535C Forensic Biochem I 3

Senior Year
Fall
CHM 2210 Organic Chm II 3
PHY 2049L Phy L Eng Sci II 1
CHS 3535C Forensic Biochem II 3
PCB 3233 Immunology 3
PCB 3233L Immunology L 1
CHS 4547C Advanced Topics in Trace Evidence 3
Elective* Check restrictions 2
Spring
EUA 2001* req# 1B-2GEP 3
PCB 3233L Immunology L 1
CHS 3535C Forensic Biochem II 3
CHS 3535C Forensic Biochem L 1
CHS 3535C Forensic Biochem I 3
EUA 2001* req# 1B-2GEP 3

Summer
CHS 4591 For Science Intrm 4

FORENSIC SCIENCE-BIOCHEMISTRY TRACK (B.S.)
College of Arts and Sciences
Department of Chemistry
CH 223, 407-823-0163
http://www.cas.ucf.edu/chemistry/
E-mail: chemistry@ucf.edu
J. Ballantyne

Admission Requirements none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Students must complete categories 2 (Common Program Prerequisites) and 3 (Core science and math) below and achieve a minimum 2.5 cumulative GPA in categories 2 and 3 prior to enrolling in the program of study described in categories 4 and 5.
- Students must maintain a minimum 2.5 cumulative GPA in categories 4 and 5 to continue in the major.
- Individual course prerequisites for enrollment in courses selected to complete categories 4 and 5 will be enforced without exception.
- Courses designated in 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 3 hrs
   - Select SPC 1016 Tech Presentations 3 hrs
B. Cultural and Historical Foundations
   - Select Hist, Phil, Pol Sci, Soc Sci or Modern Language 3 hrs
C. Mathematical Foundations
   - Select MAC 2311 Calculus & Analy Geo I 4 hrs
   - Select STA 2023 Statistical Methods I 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations
   - Select PHY 2048 & L Physics Engr & Sci 4 hrs

(39 hrs)
A maximum of 45 hours of extension, correspondence, CLEP, 25% of course work must be completed in residency at UCF. 30 of the last 36 hours of course work must be completed in residence at UCF. 48 semester hours of upper division credit completed. 60 semester hours earned after CLEP awarded. A 2.0 UCF GPA. 48 semester hours of upper division credit completed. 30 of the last 36 hours of course work must be completed in residency at UCF. 25% of course work must be completed in residency at UCF. A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted. Complete the General Education Program, the Gordon Rule, the University Minimum Exit Requirements:

- A 2.0 UCF GPA.
- 60 semester hours earned after CLEP awarded.
- 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 University Minimum Exit 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 alternatives 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
- Spring: PHY 2049&Lab* and 2049&Lab*: Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, PHY 2048&L, PHY 2048&L, and Organic Chemistry through CHM 2046 are required for graduation.

Sophomore Year
- Fall: EUEH 2000* req# 1BL-GEP 3
- Spring: SPC 1016 Tech Presentations 3
- STA 2023 Stat Methods I 3
- PHY 2049 Phy for Eng Sci II 3
- PHY 2049L Phy for Eng Sci II 3
- MAC 2311 Calc Anal Geo I 4
- CHM 2045C Chemistry Fund I 4
- MAC 2312 Calc Anal Geo II 4
- CHS 3501 Intro to For Sci 3

Junior Year
- Fall: CHM 2046L Chemistry Fund Lab 1
- Spring: MAC 2310C General Micro 5

Senior Year
- Fall: PCB 3063L Genetics L 1
- Spring: PCB 3063 Genetics 3

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 2048&Lab*: Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, PHY 2048&L, PHY 2048&L, and Organic Chemistry through CHM 2046 are required for graduation.

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 2048&Lab*: Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, PHY 2048&L, PHY 2048&L, and Organic Chemistry through CHM 2046 are required for graduation.

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 2048&Lab*: Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, PHY 2048&L, PHY 2048&L, and Organic Chemistry through CHM 2046 are required for graduation.

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 2048&Lab*: Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, PHY 2048&L, PHY 2048&L, and Organic Chemistry through CHM 2046 are required for graduation.
FRENCH (B.A.)
College of Arts and Sciences
Department of Modern Languages & Literatures
CNH 523,
http://www.cas.ucf.edu/forlang
E-mail: Modernlanguages@ucf.edu
P. Giordano, 407-823-2472

Admission Requirements: none

Placement in Language courses
Placement in Modern Language courses is based on one year of high school language being equivalent to one semester of college work. For example, four years of high school French may place the student in the first semester of the third year. Native speakers, or students who have received advanced education in French-speaking societies, may not take lower division French courses. They must also substitute other upper division level courses for FRE 3420, FRE 4422, FRE 3760, and FRE 4421.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- 36 credits in French must be taken at the 3000 level or above
- At least six of the 36 French credits must be at the 4000 level
- At least 30 hours must be taken in Modern Language courses taught in French
- Earn at least a “C” (2.0) in each upper division French course
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and Literatures
- Language credit by exam will not be given in courses lower in level than those in which students are presently enrolled. Native speakers will be allowed Credit by Examination in literature courses only.
- Co-op or internship credit cannot be used in this major
- Students must see their advisor to obtain proper counseling and have their schedule approved before registering for courses in their major
- Courses designated in 1 (Gen Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural and Historical Foundations 9 hrs
   - C. Mathematical Foundations 3 hrs
   - Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
   - Prefer STA 1060C Statistics Using Excel 3 hrs
   - D. Social Foundations 6 hrs
   - E. Science Foundations 6 hrs

2. Common Program Prerequisites (0-14 hrs)
   - FRE 1120* 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
   - FSL 3730 Romance Philology 3 hrs
   - *A native or near-native French speaker must substitute alternate upper division French courses in consultation with a departmental advisor.

4. Upper Division Restricted Electives (15 hrs)
   - French literature beyond the survey level 6 hrs

5. Departmental Exit Requirements
   - Earn a grade of “C” (2.0) or higher in at least 36 hours of upper division French courses
   - Students are required to satisfactorily complete a departmental exit exam
   - Students must submit their portfolio to their French Faculty Advisor
   - Computer Competency met by CGS 1060C or equivalent

6. Foreign Language Requirements (0-16 hrs)
   - Admission: Met by Graduation requirements.
   - Graduation: Met by Common Program Prerequisites.

7. Electives (variable)
   - Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hrs

Related Programs: Spanish, Foreign Language Combination

Related Minors: French, German, Italian, Judaic Studies, Latin American and Iberian Area Studies, Russian Area Studies, Spanish

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated by the department chair for equivalency credit. The student must provide all supporting information.

GENERAL BUSINESS (B.S.B.A.)
College of Business Administration
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
   - B. Cultural and Historical Foundations 9 hrs
   - Required: SPC 1600
   - C. Mathematical Foundations 3 hrs
   - Select MAC 1105 College Algebra or
   - Select CGS 2100C Computer Fundamentals for Bus 3 hrs
   - D. Social Foundations 3 hrs
   - Select ECO 1013 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

Total Semester Hours Required: 120 hrs

Related Programs: American and Iberian Area Studies, Russian Area Studies, Spanish

Transfer Notes:
- 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.

 unrelated
3. Required for All Business Majors (30 hrs)
First Semester in the College of Business Administration:
   - GEB 3031 Cornerstone: 6 hrs
   - GEB 3356 Introduction to Internship Business: 3 hrs
First or subsequent semesters depending on major:
   - BUL 3130 Legal & Ethical Environments of Business: 3 hrs
   - ECO 3411 Quantitative Business Tools II: 3 hrs
   - FIN 3403 Business Finance: 3 hrs
   - MAN 3025 Management of Organizations: 3 hrs
   - ISM 3011 Essentials of Management Info Sys: 3 hrs
   - MAR 3023 Marketing: 3 hrs
Last Semester:
   - MAN 4720 Strategic Management: 3 hrs

4. Special college and/or department requirements:
   - Students who change degree programs and select this major must adopt the most current catalog.
   - Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
   - Students wanting to major in General Business must apply for admission to the major.
   - 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 College of Business and Student 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 3131 Intermediate Managerial Accounting
   - ACG 3386 Federal Income Tax I

   Economics
   - ECO 3223 Money and Banking
   - ECP 3203 Contemporary Labor Economics
   - ECP 4703 Managerial Economics

   Finance
   - FIN 3303 Financial Markets
   - FIN 3414 Intermediate Corporate Finance
   - FIN 3504 Investment Analysis

   Management
   - MAN 3011 Management of Human Resources
   - MAN 4240 Organizations: Theory and Behavior

   Marketing
   - MAR 3613 Marketing Research & Analysis
   - MAR 3403 Sales Force Management
   - MAR 4841 Service Marketing
   - MAR 4156 International Marketing

6. Restricted Electives (four courses): (12 hrs)
   - Restricted electives are to be taken from three different departments and from the courses listed above, at least two of the restricted electives must be at the 4000 level.

7. Students desiring to complete the General Business major as a second major within the College of Business Administration must complete 24 hours in the second major beyond the courses required for the first major.

8. Foreign Language Requirements (0-8 hrs)
   - Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Graduation: none

9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after any CLEP award
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

10. Electives*** (variable)
   - Total Semester Hours Required: 120 hours
   - ***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
   - Required for All Business Majors (30 hrs)
   - A minimum overall GPA of 2.5 and a minimum grade of “C” (2.0) or better in each course applied towards the major, and a 2.0 overall average in the major.
   - 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)

   - Total Semester Hours Required: 120 hours
   - ***General electives as required to reach 120 semester hours.

UCF Degree Programs
UCF Degree Programs

(Primary 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 2010A
     Select CHM 1022

2. Common Program Prerequisites (17 hrs)
   - ZOO 3733C Human Anatomy* 4 hrs
   - PCB 3703 General Biology* 4 hrs
   - STA 2014C General Statistics 4 hrs
   - CGS 2100C Computer Science for Business* 3 hrs
   - ACG 2021 Principles of Financial Accounting 3 hrs
   - ACG 2071 Principles of Managerial Accounting 3 hrs
   * see transfer notes

3. Core Requirements (68 hrs)
   - HSC 3157 Introduction to Pharmacology 3 hrs
   - HSA 3170 Health Care Finance 3 hrs
   - HSA 4109 Principles of Managed Care 3 hrs
   - HSA 4191 Health Care Automation 3 hrs
   - HSA 4702 Health Sciences Research Methods 3 hrs
   - HSC 3531 Medical Terminology 3 hrs
   - HSC 3640 Health Law 3 hrs
   - HSC 4550 Pathophysiological Mechanisms 3 hrs
   - MAN 3025 Management of Organizations or
   - HSA 4180 Organization /Management for Health Agencies 3 hrs
   - HIM 3006 Foundations of Health Information Management 3 hrs
   - HIM 3116C Health Record Organization & Management 4 hrs
   - HIM 3806L Professional Practice Exp. I 4 hrs
   - HIM 3816L Professional Practice Exp. II 4 hrs
   - HIM 4226C Coding Procedures I 5 hrs
   - HIM 4256C Coding Procedures II 3 hrs
   - HIM 4676 Professional Development Issues in Health Information Management 3 hrs
   - HIM 4344C Health Information Department Management 4 hrs
   - HIM 4506 Quality Management 3 hrs
   - HIM 4838 Management Affiliation 5 hrs
   - HIM 4656C Health Information Management Systems 3 hrs

4. Upper Division Restricted Electives none

5. Departmental Exit Requirements (120 hrs)
   - A minimum 2.5 overall GPA is required for graduation.
   - Upon completion of the approved program, the student is eligible to submit an application for writing the national registration examination administered by the American Health Information Management Association to qualify as a Registered Health Information Administrator.

6. Electives none

7. Foreign Language Requirements (0-8 hrs)
   - Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Graduation: none

8. University Minimum Exit Requirements (120 hrs)
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in 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)

   Related Programs: Health Services Administration, Business, Computer Science

   Related Minors: Health Services Administration, Business, Computer Science

   Transfer Notes:
   - Community College Equivalents:
     - Human Anatomy & Physiology I & II (BSC X085 and X086) 8
     - Statistics (STA 2014C or any other statistics course) 3
     - Computer Science for Business (CGS 1060C or any other computer science course) 3
   - Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

   Tentative Course Schedule for Entering Freshmen

   Freshman Year*Fall 14 hrs Spring 16 hrs
   - ENC 1101 3 ENC 1102 3
   - CHM 1102 3 STA 2014C 3
   - HSC 2000 2 BSC 2010C 4
   - MAC 1105 3 EUH 2000 or HUM 2211 3
   - PSY 2012 or SYG 2000 3 or AMH 2010
   - or ANT 2000 or ECO 2041 3 or ECO 2031 3
   *Plan your required nine summer hours into your course of study

   Sophomore Year
   - Fall 13 hrs Spring 13 hrs
   - ACG 2021 3 ACG 2071 3
   - ZOO 3733C 4 or PCB 3703C 4
   - EUH 2001 or HUM 2230 3 or AMH 2020
   - or AMH 2020 One Course: ARH 2050 3
   - CGS 2100C 3 or ARH 2051, MUL 2010, THE 3
   - 1020, REL 2300, PHI 2010, LIT 2110, LIT 2120

   Junior Year
   - Fall 15 hrs Spring 16 hrs
   - HSA 4191** 3 HSC 4550** 3
   - HIM 3006** or HIM 3006** 3 or HUM 3116C 4
   - or AMH 2020 One Course: ARH 2050 3
   - HIM 3531** 3 or AMH 2020
   - HSA 3170** 3 or SYG 2000 3
   - HUM 2211 3 or SYG 2000 3
   - or AMH 2010 3
   - or ECO 2031 3

   Summer 6 hrs
   - HSA 4109 3
   - HIM 3806L 4
   - HSC 3157 3
   - HIM 4256C 3
   - HSA 4191** 3

   Senior Year
   - Fall 13 hrs Spring 13 hrs
   - HIM 4344C 4 HIM 4676 3
   - HSA 3170** 3 HIM 4506 3
   - HIM 4506** or HSA 4180 3 HIM 4702** 3
   - HIM 4506 3 HIM 4656C 3
   - HIM 4506 3
   - HSA 4191** 3
   - HSA 4180 3

   **NOTE: The asterisked courses may be taken at any time during the two years.
   - The HIM courses are offered only during the semester in which they appear on this schedule and are restricted to majors only.

   **HEALTH SCIENCES - ATHLETIC TRAINING TRACK (B.S.)**

   College of Health and Public Affairs
   HPA2 210, 407-823-3463
   http://www.cohpa.ucf.edu/health/pro/athletic
   E-mail: kschellh@mail.ucf.edu
   Undergraduate Program Director: Kristen C. Schellhase, MEd, ATC, ATCS

   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.
C. Completion of an AA degree from a Florida Community College; or completion of UCF’s General Education Program.
D. This limited access program is highly intensive and courses include clinical practice in a variety of settings. Due to this intensity, it is strongly recommended that students be at least one year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
E. Consent of Program Director.
F. A minimum of 100 documented clock hours working, volunteering, or shadowing with a licensed certified athletic trainer (ATC) prior to admission to the program.

Technical Standards Requirement
The Program in Athletic Training at University of Central Florida is a rigorous and intense program that places specific requirements and demands on the students enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards establish the essential qualities necessary for students considered for admission to this program to achieve the knowledge, skills, and competencies of an entry-level athletic trainer, as well as meet the expectations of the program’s accrediting agency (Commission on Accreditation of Allied Health Education Programs [CAAHEP]). The following abilities and expectations must be met by all students admitted to the Program in Athletic Training. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted into the program. Compliance with the program’s technical standards does not guarantee a student’s eligibility for the NATABOC certification exam.

Candidates for selection to the Program in Athletic Training must demonstrate:

- The mental capacity to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm;
- Sufficient postural and neuromuscular control, sensory function, and coordination to perform appropriate physical examinations using accepted techniques; and accurately, safely and efficiently use equipment and materials during the assessment and treatment of patients;
- The ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, the ability to establish rapport with patients and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with competent professional practice;
- The ability to record the physical examination results and a treatment plan clearly and accurately;
- The capacity to maintain composure and continue to function well during periods of high stress;
- The perseverance, diligence and commitment to complete the athletic training education program as outlined and sequenced;
- Flexibility and the ability to adjust to changing situations and uncertainty in clinical situations;
- Affective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.

Candidates for selection to the Program in Athletic Training will be required to verify they understand and meet these technical standards or that they believe that, with certain accommodations, they can meet the standards. University of Central Florida will evaluate a student who states he/she could meet the program’s technical standards with accommodation and confirm that the stated condition qualifies as a disability under applicable laws. If a student states he/she can meet the technical standards with accommodation, then the University will determine whether it agrees that the student can meet the technical standards with reasonable accommodation; this includes a review a whether the accommodations requested are reasonable, taking into account whether accommodation would jeopardize clinician/patient safety, or the educational process of the student or the institution, including all coursework, clinical experiences and internships deemed essential to graduation. Each candidate must provide a copy of a recent physical examination that will be evaluated by the program’s medical director.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students should complete the General Education Program, Admission Foreign Language requirement and the Common Program Prerequisites before transferring within the Florida Public University/Community College System.
- Students should consult with a departmental advisor.
- Transfer courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours.
- UCF Residency Requirement: 30 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations
- 9 hrs
B. Cultural Historical Foundations
- 9 hrs
C. Mathematical Foundations
- 6 hrs

2. Common Course Prerequisites (15 hrs)
The following courses are required before entering the professional phase of the Program in Athletic Training. Each of the required courses must have a grade of “C” (2.0) or better.

- BSC 2010C Biology I I and Lab
- ZOC 3733C Human Anatomy
- PCB 3703C Human Physiology
- CHM 2045C Chemistry Fundamentals I
- PHY 2053C Calculus Based Physics I
- PHY 2054L Physics for Scientists I (calculus based)
- HUN 2002 Modern Concepts of Nutrition
- STA 2023 Statistical Methods I
- PSY 2012 General Psychology

The following courses are required to complete the professional phase of the Program in Athletic Training. Each of the required courses must have a grade of “C” (2.0) or better.

3. Professional Phase (58 hrs)

- PET 4605 Introduction to Athletic Training
- PET 3620C Principles of Athletic Training
- PET 3670C Practicum in Athletic Training I
- PET 4631C App Exercise and Human Phys
- PET 3623C Recognition and Evaluation of Athletic Injuries I
- PET 3671C Practicum in Athletic Training II
- PET 4680C Org and Admin in Athletic Training
- PET 4603C Ther Exercise in Athletic Training
- PET 4632C Ther Mod in Athletic Training
- PET 4642C Recognition and Evaluation of Athletic Injuries II
- PET 4315C Biomechanics of Sport
- PET 4672C Practicum in Athletic Training IV
- HSA 4702 Health Science Research
- PET 4606 App Fitness in Sport
- PET 4673C Practicum in Athletic Training IV
- HSC 3157 Introduction to Pharmacology
- PET 4604 Sports Medicine in Field Application
- PET 4674 Senior Seminar

4. Upper Division Restricted Electives none

5. Departmental Exit Requirements (120 hrs)
Two years of successful clinical rotation under the direct supervision of a certified Athletic Trainer (ATC).

6. Electives (variable)

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
UCF Degree Programs

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: Aging Studies Certificate, Business, Public Administration

Related Minors: Business, Computer Sciences, Aging Studies, Biology, Coaching, Fitness Training, Health Information Management, Health Sciences, Health Services Administration and Public Administration. Courses leading to a teaching certificate (education) are also appropriate. Electives in advanced scientific, clinical or quantitative subjects are also advisable.

Transfer Notes:
   - Biology I with Lab (BSC 1010/L) 4 hrs
   - Human Anatomy and Physiology I & II (BSC X093 and X094 or BSC X085 and X086)
   - Students that transfer with an AA degree and will be pursuing a BA degree must meet the University foreign language admission requirements for graduation.

Tentative Course Schedule for Entering Freshmen

Freshman Year*

Fall 15 hrs
   ENC 1101 3
   PSY 2012 3
   HSC 2000 2
   MAC 1105 3
   CHM 2045C 4

Sophomore Year

Fall 14 hrs
   PHY 2053C 4
   ZOO 3733C 4
   STA 2023 3
   EUIH 2010 or HUM 2211 or AMH 2010 or WOH 2012 3

Summer 14 hrs
   PET 4603 3
   PET 3620C 3
   (Foreign Lang I) 4
   (Foreign Lang II) 4
   If not satisfied in high school

Junior Year

Fall 13 hrs
   PET 3670C 4
   PET 3671C 3
   PET 3623C 3
   Elective 3

Summer 8 hrs
   PET 4630C 4
   PET 4632C 4

Senior Year

Fall 14 hrs
   PET 4660C 3
   PET 4315C 3
   PET 4674 1
   PET 4672C 4
   Elective 3

Spring 14 hrs
   ENC 1102 3
   POS 2041 3
   BSC 2010C 4
   MAC 1114 4
   MUL 2010 Enjoyment of Music
   HSC 2000 Intro to the Allied Health Professions 2 hrs
   STA 2014C Principles of Statistics
   MAC 1105 College Algebra GEP
   STA 2014C Principles of Statistics or STA 2023 Statistical Methods I
   STA 2023 3
   EUIH 2010 or HUM 2211 or AMH 2010 or WOH 2012 3
   PET 4603 3
   PET 3620C 3
   (Foreign Lang I) 4
   (Foreign Lang II) 4
   If not satisfied in high school

Spring 16 hrs
   MUL 2010 or REL 2300 or THE 2000 or PHI 2010 3
   HUN 2002 3
   HSC 2000 Intro to the Allied Health Professions 2 hrs
   STA 2014C Principles of Statistics or STA 2023 Statistical Methods I
   STA 2023 3
   EUIH 2010 or HUM 2211 or AMH 2010 or WOH 2012 3
   PET 4603 3
   PET 3620C 3
   (Foreign Lang I) 4
   (Foreign Lang II) 4
   If not satisfied in high school

Fall 13 hrs
   HSC 3157 3
   PET 4671C 4
   Elective 3
   HSC 2000 Intro to the Allied Health Professions 2 hrs
   MAC 1114 College Trigonometry 3 hrs

Spring 13 hrs
   HSA 4702 3
   PET 4608 3
   PET 4670C 3
   PET 4604 3
   PET 4606 3
   PET 4679C 3
   Elective 3

Fall 13 hrs
   HSA 4702 3
   PET 4608 3
   PET 4604 3

Spring 13 hrs
   HSA 4702 3
   PET 4608 3
   PET 4670C 3
   PET 4604 3

Fall 13 hrs
   HSA 4702 3
   PET 4608 3
   PET 4670C 3

Spring 13 hrs
   HSA 4702 3
   PET 4608 3
   PET 4670C 3

HEALTH SCIENCES - GENERALIST TRACK (B.S.)

College of Health and Public Affairs
HPA2 210, 407-823-2369

Undergraduate Program Director: Thomas Falen
Web Address: http://www.cphhp.ucf.edu/health

Purposes of this degree: Provides an opportunity for credentialed health care professionals to expand scope of their education through completion of courses both within and outside of their discipline and to enable students considering a health services career to complete courses in several disciplines in order to make informed career decisions.

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

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

Common Program Prerequisites (0 hrs)
MAC 1105 College Algebra GEP
STA 2104C Principles of Statistics or STA 2023 Statistical Methods I

Core Requirements - Lower Division (14 hrs)
CIS 2100C Computer Fundamentals for Business or
CGS 1060C Intro to Computer Science
CHM 1032 General Chemistry 3 hrs
ECO 2023 Microeconomics 3 hrs
HSC 2000 Intro to the Allied Health Professions 2 hrs
MAC 1114 College Trigonometry 3 hrs

Core Requirements - Upper Division (48 hrs)
HIM 3006 Foundations of Health info Mgmtnt 3 hrs
HSA 3111 US Healthcare Systems 3 hrs
HSA 4109 Managed Care 3 hrs
HSA 4201 Community Health Services 3 hrs
HSA 4180 Org & Mgt of Health Agencies or
PET 4600C Org & Admin of Athletic Training 3 hrs
HSA 4191 Health Care Automation 3 hrs
HSA 3222 Long Term Care Administration 3 hrs
HSA 4702 Health Sciences Research Methods 3 hrs
HSC 3101 Medical Self Assessment 3 hrs
HSC 3531 Medical Terminology 3 hrs
HSC 3640 Health Law 3 hrs
HSC 4243 Analysis of Instruction 3 hrs
HSC 4500 Epidemiology 3 hrs
HSC 4563 HealthCare Needs of the Elderly or
PHT 3259 Patient Care Skills
4. Lower Level Electives (0-5 hrs)
Number of hours depends upon the number of foreign language
hours required.

5. Upper Division Restricted Electives (0-15 hrs)
Up to 15 hours from related health science programs with depart-
mental approval.

6. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or
one year of one foreign language in college (or equivalent profi-
cency exam) prior to graduation.

Graduation: None

7. Program Exit Requirements (120 hrs)
The students must attain a minimum grade of “C” (2.0) in all
Common Program Prerequisite courses and in all Core
Requirements (see sections 2 and 3 above). An overall 2.0 GPA
must be attained for all coursework (see sections 1, 2, 3, and 4).

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in
residency at UCF
- Complete the General Education Program, the Gordon Rule,
the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs:
The participating student may also consider applying for considera-
tion to one or more of the following undergraduate professional
degree options: Health Information Management, Athletic Training,
Cardiopulmonary Sciences, Radiologic Sciences, Health Services
Administration, Professional graduate study disciplines to which this
degree option might lead: Physical Therapy, Social Work, Health
Services Administration.

Related Minors: None

Transfer Notes:
Associate of Arts Degree recommended. 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

<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>
<td>3 hrs</td>
<td>ENC 1102</td>
<td>3 hrs</td>
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<tr>
<td>CGS 1060C or CGS 2100C</td>
<td>3 hrs</td>
<td>POS 2041</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHM 1032</td>
<td>3 hrs</td>
<td>BSC 2010C</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAC 1106</td>
<td>3 hrs</td>
<td>PSY 2012</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSC 2000</td>
<td>2 hrs</td>
<td>ECO 2023</td>
<td>3 hrs</td>
</tr>
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</table>

Sophomore Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>15/17 hrs</th>
<th>Spring</th>
<th>15/16 hrs</th>
</tr>
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<tbody>
<tr>
<td>PHY 2053C</td>
<td>4 hrs</td>
<td>MUL 2010 or REL 2300</td>
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<tr>
<td>MAC 1114</td>
<td>3 hrs</td>
<td>or THE 2000 or PHI 2010</td>
<td>3 hrs</td>
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<tr>
<td>SPC 1600</td>
<td>3 hrs</td>
<td>STA 2014C or STA 2023</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EUH 2000 or HUM 2211</td>
<td>3 hrs</td>
<td>Elective</td>
<td>3 hrs</td>
</tr>
<tr>
<td>or AMH 2010</td>
<td></td>
<td>EUH 2001 or HUM 2230</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Foreign Lang I* or other</td>
<td>2/4 hrs</td>
<td>or AMH 2020</td>
<td>3/4 hrs</td>
</tr>
<tr>
<td>lower level courses</td>
<td></td>
<td>Foreign Lang II* or other</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>lower level courses</td>
<td></td>
</tr>
</tbody>
</table>

* if not satisfied in high school. If foreign language is fulfilled through other than
classwork, student shall be required to complete 6-8 hours of lower division
elective classwork.

Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
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</thead>
<tbody>
<tr>
<td>HSC 3110C</td>
<td>3 hrs</td>
<td>HSA 4180 or PET 4660C</td>
<td>5 hrs</td>
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<tr>
<td>HIM 3005</td>
<td>3 hrs</td>
<td>HSA 4222</td>
<td>3 hrs</td>
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Senior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
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</thead>
<tbody>
<tr>
<td>HSA 4702</td>
<td>3 hrs</td>
<td>HSA 4249</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAC 4564 or PHT 3259</td>
<td>3 hrs</td>
<td>HSA 4109</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4191</td>
<td>3 hrs</td>
<td>HSA 4653</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Elective (if needed)</td>
<td>3 hrs</td>
<td>Elective (if needed)</td>
<td>3 hrs</td>
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<tr>
<td>Elective (if needed)</td>
<td>3 hrs</td>
<td>Elective (if needed)</td>
<td>3 hrs</td>
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</tbody>
</table>

HEALTH SERVICES ADMINISTRATION (B.S)
College of Health and Public Affairs
HPA2  210, 407-823-2359
http://www.coaha.ucf.edu/health.pro/
Executive Director of HSA Programs: Myron Fottler
Undergraduate Program Director: Thomas Falen
Graduate Program Director: Dawn Oetjen

Admission Requirements none

Degree Requirements
- Students who change degree programs and select this major
  must adopt the most current catalog.
- Students should complete the General Education Program and
  the Common Program Prerequisites before transferring within
  the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken
  at a Florida Community College, and should usually be complet-
  ed in the first 60 hours
- UCF Residency Requirement: 30 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural Historical Foundations 9 hrs
   C. Mathematical Foundations 6 hrs
      Select MAC 1105
      Select STA 2014C or 2023
   D. Social Foundations 6 hrs
      Select ECO 2023
   E. Science Foundations 6 hrs

2. Common Program Prerequisites (9 hrs)
   CGS 2100C  Computer Fund for Business Applications or
   CGS1060C  Intro to Computer Science
   ECO 2023  Microeconomics
   ACG 2021  Financial Accounting
   ACG 2071  Managerial Accounting
   STA 2014C or
   STA 2023  Statistical Methods
   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 3 hrs
Tentative Course Schedule for Entering Freshmen

Freshman Year*

Fall
ENC 1101 3
PSY 2012 or SYG 2000 3
or ANT 2000 3
HSC 2000 2
MAC 1105 3
Elective 3

Spring
ENC 1102 3
ECO 2013 3
PSC 1121 or CHM 1020 3
MUL 2010 or THE 2000 3
or REL 2800 or PHI 2010 3
SPC 1900 3

Sophomore Year

Fall
ACG 2021 3
ECO 2023 3
BSC 1005 3
EUN 2000 or HUM 2211 3
or AMH 2010 or WOH 2012 3
CJS 2100C 3

Spring
ACG 2071 3
STA 2023 3
HSA 3111 3
EUN 2001 or HUM 2230 3
or AMH 2020 or WOH2022 3

Notes:
- Students are urged to have access to a personal computer, modem, and appropriate software to interact with the University and professors.
- A variety of internship opportunities are available for HSA majors. An internship is not required but highly recommended.

HISTORY (B.A.)

College of Arts and Sciences
History Department, CNH 551,
http://pegasus.cc.ucf.edu/~history
E-mail: history@ucf.edu
E. Kallina, 407-823-2224
Admission Requirements
- none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students must earn at least a “C” (2.0) in each history course for it to be counted toward the major
- Co-op credit cannot be used in this major
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF History Department
- Students must compile a portfolio of their written work in history, completed inside and outside the classroom
- Students must complete 36 hours in history
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations
   Select AMH 2010 US History: 1825-1860 3 hrs
   Select AMH 2020 US History: 1877-Present 3 hrs
   Select one class from 1.B.2 list 3 hrs
C. Mathematical Foundations
   Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
   Prefer CGS 1106C Intro to Computer Sci 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites (0 hrs)
AMH 2010* US History: 1492-1877 GEP
AMH 2020* US History: 1877-Present GEP
*See Transfer Notes for possible substitutes

3. Core Requirements (9 hrs)
HIS 4150 History & Historians 3 hrs
Select one sequence
EUH 2000, 2001 Western Civilization I & II 3 hrs
WOH 1202, 2022 World Civilization I & II

4. Upper Division Restricted Electives (21 hrs)
(Must be taken within the History Department)
Select six hours of approved history courses within three of the four geographic regions. 18 hrs
1) Asian, African, and Middle Eastern
2) British and European
3) Latin American
4) U.S. and Canadian
Select three hours of approved history courses 3 hrs

5. Departmental Exit Requirements
- Maintain a minimum GPA of 2.0 in upper division required courses attempted.
- Submit a portfolio during the semester of graduation. The portfolio will include representative samples of the student's written work including, but not limited to, book critiques, in-class essay exams, and term papers.
- Computer Competency met by completion of the major.
- Students must complete at least 18 of the required 36 History hours at UCF

6. Foreign Language Requirements (0-8 hrs)
Admission: Must 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. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of historical interest.

7. Electives (variable)
Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Humanities
Related Minors: African-American Studies, American Studies, Asian Studies, Humanities, Judaic Studies, Latin American and Iberian Area Studies, Russian Area Studies, Women's Studies
Transfer Notes:
- Grades below "C" (2.0) are not accepted.
- Courses transfered 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
<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>AMH 2010 U S His 1492 1877</td>
<td>AMH 2020 U S His 1877 Pres</td>
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<td>BSC 1005 req# 1E1-GEP</td>
<td>ENC 1101 Composition I</td>
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<tr>
<td>ENC 1101 Composition I</td>
<td>ENC 1102 Composition II</td>
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<td>POS 2041 req# 1D1-GEP</td>
<td>MGF 1106 req# 1C1-GEP</td>
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Sophomore Year
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<tbody>
<tr>
<td>ARH 2050 req# 1B3-GEP</td>
<td>CGS 1060C Intro to Comp Sci</td>
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<td>CGS 2000 req# 3-Care</td>
<td>EUH 2000 req# 3-Care</td>
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<td>SPN 1121 req Spang Lang/Elec</td>
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Junior Year
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<th>Spring</th>
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<tbody>
<tr>
<td>HIS 4150 History &amp; Hist</td>
<td>ASH 3222 req# 4.1-ResEle</td>
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<tr>
<td>ASH 3315 req# 4.2-ResEle</td>
<td>EUH 3651 req# 4.2-ResEle</td>
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<td>Select 3 hrs</td>
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<td>Select 3 hrs</td>
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Senior Year
<table>
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<th>Spring</th>
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<tbody>
<tr>
<td>LAH 3130 req# 4.3-ResEle</td>
<td>AMH 3423 req# 4.4-ResEle</td>
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<tr>
<td>AMH 3571 req# 4.4-ResEle</td>
<td>EUH 3651 req# 4.2-ResEle</td>
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<td>Elective* Check restrictions</td>
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</tr>
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<td>Elective* Check restrictions</td>
<td>Elective* Check restrictions</td>
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</tbody>
</table>

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)
- Communication Foundations 9 hrs
- Cultural and Historical Foundations 9 hrs
- Mathematical Foundations 12 hrs
- Social Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)
- UFT 100 Introduction to Hospitality/Tourism 3 hrs

3. Hospitality Management Core (52 hrs)
A. Quantitative Tools
- CGS 2100 Computer Fundamentals for Business
- STA 2023 Statistical Methods I
- Select one: PSY 2012, SYG 2000, ANT 2000

B. Fundamentals
- FSS 2212C Quantity Food Preparation 3 hrs
- HFT 3540 Guest Services Management 3 hrs

C. Managerial Tools
- HFT 2423 Hospitality Financial Accounting 3 hrs
- HFT 3431 Hospitality Management Accounting 3 hrs
- HFT 2500 Hospitality Marketing 3 hrs
- HFT 2220 Hospitality Human Resource Mgmt 3 hrs
- HFT 3444 Hospitality Information Systems 3 hrs
- HFT 3600 Legal Environment in Hospitality 3 hrs
- HFT 4295 Leadership and Strg Mgmt in Hospitality Ind 3 hrs
- HFT 4286 Hospitality Communications 3 hrs
- HFT 4462 Hospitality Industry Finance 3 hrs
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.
   - The Rosen College of Hospitality Management requires all first time at UCF students to live in the Rosen College student apartments for their first year enrolled in the College.

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
   (15 hrs)
   - Choose five advanced courses from the following list:
     HFT 3313 Hospitality Physical Plant Management 3 hrs
     HFT 3423 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 4861C Beverage Management 3 hrs
     FSS 3124 Supply and Procurement Management 3 hrs
     FSS 4135 Corporate Contract & Managed Services Orgs 3 hrs
     FSS 4323C 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 4726 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 Mgt in Foodservice Industry 3 hrs
     HFT 4274 Vacation Ownership Resort Management 3 hrs
     HFT 4522 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
     HFT 4442 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
     HFT 4442 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
     HFT 4759 Product Development in Theme Parks and Attractions 3 hrs
     HFT 4754 Exhibit & Trade Show Operations 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 3 hrs
     HFT 4757 Event Management 3 hrs
     HFT 4795 Entertainment Arts and Events 3 hrs
     HFT 3784 Amusement Technology 3 hrs

B. Event Management Track – Choose 5 Courses
   (15 hrs)
   - HFT 4753 Convention and Conferences Services 3 hrs
   - HFT 4754 Exhibit and Trade Show Operations 3 hrs
   - HFT 3802 Catering Management 3 hrs
   - HFT 3741 Meeting Management 3 hrs
   - HFT 3757 Event Management 3 hrs
   - HFT 3511 Convention and Conference Sales 3 hrs
   - HFT 4515 Reservations, Sales & Marketing 3 hrs
   - HFT 4284 Training and Performance in the Food Service Industry 3 hrs
   - HFT 4795 Entertainment Arts and Events 3 hrs
   - HFT 4866C Exploring Wines of the World 3 hrs
   - HFT 3868 History of Wine and Culture 3 hrs
   - HFT 4894 International Gastronomy 3 hrs

C. Vacation Ownership Resort Management Track
   (15 hrs)
   - 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 Sales Tactics and Strategies 3 hrs
   - HFT 4343 Hospitality Facilities Planning & Design 3 hrs

D. Theme Park and Attractions Management Track – Choose 5 Courses
   (15 hrs)
   - HFT 4786 Managing the Guest Experience in Theme Parks and Attractions 3 hrs
   - HFT 4754 Exhibit and Trade Show Operations 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 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
   - HFT 3784 Amusement Technology 3 hrs

E. Tourism Management Track
   (15 hrs)
   - HFT 4735 Tourism Geography 3 hrs
   - HFT 4275 Development of Vacation Ownership Resorts 3 hrs
   - HFT 4473 Hotel Development Analysis 3 hrs
   - HFT 4253 Hotel Operations 3 hrs
   - HFT 4253 Hotel Operations 3 hrs
   - HFT 4313 Hospitality Physical Plant Management 3 hrs
   - HFT 4343 Hospitality Facilities Planning & Design 3 hrs
   - HFT 4351 Convention and Conference Sales 3 hrs
   - HFT 4515 Reservations, Sales & Marketing 3 hrs
   - HFT 4284 Training and Performance in the Food Service Industry 3 hrs

F. Lodging Management Track
   (15 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 4431 Technology Applications for Management 3 hrs
   - HFT 4253 Hotel Operations 3 hrs
   - HFT 3313 Hospitality Physical Plant Management 3 hrs
   - HFT 4343 Hospitality Facilities Planning & Design 3 hrs
   - HFT 4351 Convention and Conference Sales 3 hrs
   - HFT 4515 Reservations, Sales & Marketing 3 hrs

G. Hospitality Financial Management and Technology
   (15 hrs)
   - HFT 4442 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
   - HFT 4442 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
   - HFT 4442 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
   - HFT 4473 Hotel Development Analysis 3 hrs
   - HFT 4453 Food, Beverage and Labor Cost Controls 3 hrs
   - HFT 4432 Hospitality Industry Auditing 3 hrs
   - HFT 4431 Technology Applications for Management 3 hrs
   - HFT 4442 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs

H. Golf Management Track – Choose 5 Courses
   (15 hrs)
   - HFT 1357 Golf Event Operations 3 hrs
   - HFT 1356 Concepts and Practices of Golf Assoc. 3 hrs
   - HFT 3359 Design and Maintenance of Golf Equip 3 hrs
   - HFT 3353 Golf Planning and Operations I 3 hrs
   - HFT 3355 Golf Planning and Operations II 3 hrs
   - HFT 3354 Agronomy for Golf Course Mgmt 3 hrs
   - HFT 4358 Golf Course Facility Design 3 hrs
5. 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)

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

Community/Junior College Transfer Notes
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF College of Hospitality Management.
- Florida Public Community College students are encouraged to complete the general education requirements prior to transferring to UCF.
- A minimum of 30 semester hours must be completed at UCF within the hospitality major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.

FOUR YEAR PLAN OF STUDY FOR HOSPITALITY MANAGEMENT*
*Plan your required nine summer credit hours into your course of study.

Freshman
Fall 15 hrs
ENC 1101 3
Cult-Hist I 3
CGS 2100C or STA 2023 3
HFT 1000 3
Spring 15 hrs
HFT 2500 Hospitality Marketing 3
Cult-Hist I 3
Cult-Hist II 3
Fall 15 hrs
HFT 1001 3
SPC 1600 3
MAC1105 College Algebra 3
Spring 15 hrs
Fall 15 hrs
Freshman
Fall 15 hrs
HFT 4462 Hospitality Finance 3
Unrestricted Elective 3
Fall 15 hrs
Senior
HFT 4724 Hospitality Communications 3
Hospitality Elective 3
Senior
HFT 3915 Hospitality Ethics 3
Senior
HFT 4286 Hospitality Communications 3
HFT 4462 Hospitality Finance 3
HFT 2940 Hospitality Management Internship 1
HFT 3915 Hospitality Ethics 3
Unrestricted Electives 8
HFT 3423 Hosp Mgt Acct 3
HFT 3942 Practicum II 1
HFT 3431 Hosp Mgt Acct 3
HFT 3942 Practicum II 1
Unrestricted Electives 8
HFT 4286 Hospitality Communications 3
HFT 4462 Hospitality Finance 3

HOSPITALITY MANAGEMENT (B.S.)
A.S. to B.S. Track
Note: For detailed information about this program, see description in the AS to BS Programs section.

HUMANITIES (B.A.)
College of Arts and Sciences
Philosophy Department, CHN 411, http://www.cas.ucf.edu/philosophy/
E-mail: philosophy@ucf.edu
Bruce Jarz, 407-823-2273, Fax: 407-823-6658

Admission Requirements
none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior approval by the chair.
- Students must earn at least a “C” (2.0) in each required course.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
      Select HUM 2229 Comprehension and Argument
   B. Cultural and Historical Foundations 3 hrs
      Select HUM 2211 Humanistic Tradition I
      Select HUM 2220 Humanistic Tradition II
      Select PHI 2101 Intro to Philosophy or REL 2300 World Religions
   C. Mathematical Foundations 3 hrs
      Select MGF 1106 Finite Mathematics (may substitute a higher level math)
      Select STA 1000C Statistics Using Excel
   D. Social Foundations 6 hrs
      Select two courses
   E. Science Foundations 6 hrs

2. Common Program Prerequisites
   none

3. Core requirements (6 hrs)
   HUM 2211 Humanistic Traditions I GEP
   HUM 2220 Humanistic Traditions II GEP
   HUM 4933 Humanities Senior Research Seminar 3 hrs

4. Concentrations (choose one) (23 hrs)
   Note: Appropriate new, or special topics courses in philosophy or humanities may be substituted for some courses with prior approval by department advisor.
   A. Classical Humanities:
      Foundations (9 hrs)
      Select two courses
      HUM 3431 Ancient Humanities
      HUM 3435 Medieval Humanities
      HUM 3255 Modern Humanities
      2. Western Traditions and Applications (9 hrs)
      Select two courses
      ARH 4310 Italian Renaissance Art
      ARH 4170 Greek and Roman Art
      HUM 3552 Christian Thought
      HUM 3553 Moses, Jesus, & Mohammed
      CLA 3850 Classical Mythology
      CLA 3851 Comparative Mythology
      JST 3401 The Jewish People I
      REL 3432 Roots of Western Mysticism
      Only one of the following may be taken
      PHI 3100 Ancient Philosophy
      PHI 3200 Medieval Philosophy
      PHI 3460 Modern Western Philosophy
      3. World Intellectual Traditions: (6 hrs)
      Select two courses
      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 4303 The Spiritual Ideal
      HUM 4554 Religious Quest and the Human Dilemma
      PHI 3XXX African Philosophy

B. Multi-Cultural Humanities

173
Students considering graduate school in humanities are strongly
encouraged to take Honors in the Major. Requirements are as follows:

Core and Elective Requirements

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>9 hrs</td>
<td>HUM 3255</td>
<td>Modern Humanities</td>
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<tr>
<td>3 hrs</td>
<td>HUM 3251</td>
<td>Contemporary Humanities</td>
</tr>
<tr>
<td>3 hrs</td>
<td>PHI 4804</td>
<td>Critical Theory</td>
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2. Traditions and Applications (15 hrs)

Select one course from the "Traditions and Applications" category in
the concentrations that are not being used to satisfy Core

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

6. Honors in the Major

Students considering graduate school in humanities are strongly
encouraged to take Honors in the Major. Requirements are as follows:

Core and Elective Requirements (30 hrs)

Same requirements as for regular majors

Honors Thesis

<table>
<thead>
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<td>3 hrs</td>
<td>HUM 493H</td>
<td>Honors Directed Readings</td>
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<tr>
<td>3 hrs</td>
<td>HUM 4970</td>
<td>Honors Thesis</td>
</tr>
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</table>

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 4906, or by
  STA 1060C
- To avoid delaying graduation, you must request a review of

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 examina-
tions 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 advi-
or'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 res-
  idency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the
  CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required

120 hours

Related Programs: Humanities - Religious Studies Track, 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.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all require-
ments. 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>
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<td>ENC 1101</td>
<td>Composition I</td>
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<td>Spring</td>
<td>ENC 1102</td>
<td>Composition II</td>
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<tr>
<td>Fall</td>
<td>HUM 2211</td>
<td>Hum Tradition I</td>
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<tr>
<td>Spring</td>
<td>HUM 2230</td>
<td>Hum Tradition II</td>
</tr>
<tr>
<td>Fall</td>
<td>MGF 1108*</td>
<td>req 1C1-GEP</td>
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<tr>
<td>Spring</td>
<td>MGF 1109*</td>
<td>req 1C2-GEP</td>
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<tr>
<td>Fall</td>
<td>REL 2300*</td>
<td>req 1B2-GEP</td>
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<td>Spring</td>
<td>SPN 1120*</td>
<td>req Lang/Elect</td>
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Sophomore Year

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</thead>
<tbody>
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<td>ANT 2511*</td>
<td>req 1E2-GEP</td>
</tr>
<tr>
<td>Spring</td>
<td>COM 1000*</td>
<td>req 1A3-GEP</td>
</tr>
<tr>
<td>Fall</td>
<td>PSY 2012*</td>
<td>req 1D2-GEP</td>
</tr>
<tr>
<td>Spring</td>
<td>HUM 2451*</td>
<td>req 4A1-ClasHu</td>
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Junior Year

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<td>ARH 4310*</td>
<td>req 4A2-ClasHu</td>
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<tr>
<td>Spring</td>
<td>CLA 3851*</td>
<td>req 4A2-ClasHu</td>
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<tr>
<td>Fall</td>
<td>JST 3401*</td>
<td>req 4A2-ClasHu</td>
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<tr>
<td>Spring</td>
<td>HUM 4906</td>
<td>Honors Thesis</td>
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Senior Year

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<tr>
<td>Spring</td>
<td>Elective*</td>
<td>Check restrications</td>
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<tr>
<td>Fall</td>
<td>Elective*</td>
<td>Check restrications</td>
</tr>
<tr>
<td>Spring</td>
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<tr>
<td>Fall</td>
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</tr>
<tr>
<td>Spring</td>
<td>Elective*</td>
<td>Check restrications</td>
</tr>
</tbody>
</table>

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 require-
ments. Courses with an asterisk (*) may be replaced by alternates in the same
requirement. Consult a departmental advisor for alternate, new or more appropriate
selections.
HUMANITIES—PHILOSOPHY, RELIGION & POPULAR CULTURE TRACK (B.A.)

College of Arts and Sciences
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 2211 Humanistic Traditions I 3 hrs
      Select HUM 2230 Humanistic Traditions II 3 hrs
      Select PHIL 2010 Intro to Philosophy 3 hrs
   C. Mathematical Foundations
      Select MGF 1106 Finite Mathematics 6 hrs
      (May substitute a higher level math)
      Prefer STA 1060C Statistics Using Excel
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites none

3. Core requirements (18 hrs)
   a. Core (8 hrs)
      HUM 2211 Humanistic Traditions I GEP
      HUM 2230 Humanistic Traditions II GEP
      PHIL 2010 Intro to Philosophy GEP
   b. Theoretical Foundations (6 hrs)
      PHIL 3694 Ways of Living
      PHIL 4341 Ways of Knowing
   c. Philosophy (6 hrs)
      Select two courses:
      PHIL 2101 Critical Thinking
      PHIL 2000 Ethical Theory
      PHIL 3000 Philosophy of Religion
      PHIL 3000 Aesthetics
      PHIL 3100 Freedom and Justice
      PHIL 3200 Faith and Reason
      PHIL 3786 Existentialism
      PHIL 4804 Critical Theory
      PHIL 4300 Theories of Knowledge
   d. Religion (6 hrs)
      Select two courses:
      CLA 3853 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
      PHIL 3750 The Problem of Evil

4. Popular Culture Studies (12 hours)
   a. Contemporary Media (6 hrs)
      Select two courses:
      HUM 3230 Contemporary Multicultural Studies
      HUM 4516 Religion and the Arts
      HUM 4330 Performance Theory
      PHIL 3625 Virtual Ethics
      PHIL 4931 Philosophy in the News
      POS 3236 Mass Media and Politics
      POS 3258 Poltics in Film
      REL 3115 Religion, Spirituality and Popular Music
   b. Contemporary Forms of Life (6 hrs)
      Select two courses:
      ANT 3302 Sex, Gender and Culture
      HUM 3251 Contemporary Humanities
      PHIL 3022 Sex, Gender and Philosophy
      PHIL 3930 Family Values
      PHIL 3933 Philosophy, Religion and the Environment
      PHM 3401 Philosophy of Law
      PHIL 3638 Ethical Issues in the 21st Century
      PHIL 3863 Philosophy of Friendship
      PHIL 3XXX Philosophy of Love
      PHIL 3123 Feminist Theories
      PHIL 4321 Philosophies of Embodiment: Mind/Body/Self
      REL 3111 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 4933H Honors Directed Readings 3 hrs
      HUM 4970H Honors Thesis 3 hrs
   c. Additional Requirements of Honors in the Major
      • Application and admission through the Humanities Honors Coordinator
      • Fulfill University requirements for Honors in the Major
      • Earn a “B” (3.0) or better in both HUM 4933H and HUM 4970H
      • Maintain a UCF GPA of at least 3.2 and a Humanities GPA of at least 3.5
      • Successful completion and oral defense of Honors Thesis

7. Departmental Exit Requirement
   • Departmental Exit Exam in final semester.
   • Earn a “C” (2.0) or better in each required course
   • Computer Competency met by HUM 4970H, HUM 4906, 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)
   Admissions: 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. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

9. Electives (variable)
   Select primarily from upper level courses, with departmental advisor’s approval. May be outside the department.

10. University Minimum Exit Requirements
   • 2.0 UCF GPA
   • 60 semester hours earned after CLEP awarded
   • 48 semester hours of upper division credit completed
   • 30 of the last 36 hours of course work must be completed in residency at UCF
   • A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   • Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Humanities, Humanities - Religious Studies Track, 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.

UCF Degree Programs
HUMANITIES – RELIGIOUS STUDIES TRACK (B.A.)

College of Arts and Sciences
Philosophy Department, CNH 411,
http://www.cas.ucf.edu/philosophy/
E-mail: phildept@ucf.edu

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 approval by the chair.
- Students must earn at least a "C" (2.0) in each required course.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
   B. Cultural and Historical Foundations
      Select HUM 2211 Humanistic Tradition I 3 hrs
      Select HUM 2230 Humanistic Tradition II 3 hrs
      Select REL 2300 World Religions 3 hrs
   C. Mathematical Foundations
      Select MGF 1106 Finite Mathematics (May substitute a higher level math) 6 hrs
   D. Social Foundations
      Prefer STA 1060C Statistics Using Excel 6 hrs
   E. Science Foundations
      Select primarily from upper level courses, with departmental advisor's approval. 6 hrs

2. Common Program Prerequisites

3. Core requirements (24 hrs)
   a. Core
      HUM 2211 Humanistic Traditions I GEP 3 hrs
      HUM 2230 Humanistic Traditions II GEP 3 hrs
      REL 2300 World Religions GEP 3 hrs
   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 3 hrs
         POT 4632 Religion and Politics 3 hrs
         SYO 4200 Sociology of Religion 3 hrs
         REL 3131 Religion in America 3 hrs
         ANT 3241 Magic, Ritual, and Belief 3 hrs
      (2) Humanities and Classics
         HUM 3431 Ancient Humanities 3 hrs
         HUM 3433 Medieval Humanities 3 hrs
         HUM 3255 Modern Humanities 3 hrs
         HUM 3251 Contemporary Humanities 3 hrs
         CLA 3850 Classical Mythology 3 hrs
         CLA 3851 Comparative Mythology 3 hrs
   c. Traditions: Religion in a Global World (9 hrs)
      Select three courses:
      HUM 3401 Asian Humanities 3 hrs
      HUM 3417 Hindu Thought and Culture 3 hrs
      HUM 3419 Islamic Thought and Culture 3 hrs
      HUM 3552 Christian Thought 3 hrs
      HUM 3553 Moses, Jesus, and Mohammed 3 hrs
      JST 3401 The Jewish People I 3 hrs
      JST 3402 The Jewish People II 3 hrs
      ANT 3245 Native American Religions 3 hrs
   d. Applications: Topics and Issues in the Study of Religion (6 hrs)
      Select two courses:
      REL 3162 Healing: Culture, Art, and Praxis 3 hrs
      HUM 4554 Religious Quest and the Human Dilemma 3 hrs
      HUM 4303 The Spiritual Ideal 3 hrs
      PHI 3033 Philosophy, Religion, and the Environment 3 hrs
      REL 3115 Religion, Spirituality, and Popular Music 3 hrs
      REL 3111 Religion and Philosophy Through Film 3 hrs
      REL 3432 Roots of Western Mysticism 3 hrs
   e. 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)

5. Honors in the Major
   Students considering graduate school in humanities are strongly encouraged to take Honors in the Major. Requirements are as follows:

   Core and Elective Requirements (30 hrs)
   Same requirements as for regular majors
   Honors Thesis (6 hrs)
   HUM 4903H Honors Directed Readings 3 hrs
   HUM 4970H Honors Thesis 3 hrs

6. Departmental Exit Requirements (3 hrs)
   Either HUM 4970H: Honors Thesis (3 hrs) or REL 4190 Senior Research Seminar.
   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. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement
   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

8. Electives (variable)
   Select primarily from upper level courses, with departmental advisor's approval. May be outside the department.

9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Philosophy, Humanities, Liberal Studies
Related Minors: Philosophy, Humanities, Judaic Studies, Religious Studies

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.
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>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>ENC 1102 Composition II</td>
</tr>
<tr>
<td>HUM 2211 Hum Tradition I</td>
<td>HUM 2230 Hum Tradition II</td>
</tr>
<tr>
<td>MGF 1106* req# 1C1-GEP</td>
<td>STA 1060C* req# 1C2-GEP</td>
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<tr>
<td>REL 2300 World Religions</td>
<td>REL 3131* req# 3b-Foundn</td>
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<tr>
<td>SPN 1120* req# Lang/Elec</td>
<td>SPN 1121* req# Lang/Elec</td>
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Sophomore Year

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<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>ANT 2511* req# 1E2-GEP</td>
<td>POS 2041* req# 1D1-GEP</td>
</tr>
<tr>
<td>COM 1000* req# 1A3-GEP</td>
<td>HUM 3411* req# 3c-Tradtns</td>
</tr>
<tr>
<td>PSY 2012* req# 1D2-GEP</td>
<td>HUM 3251* req# 4-ResElec</td>
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<tr>
<td>JST 3401* req# 3c-Tradtns</td>
<td>Elective* Check restrictions</td>
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</table>

Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>PHI 3700* req# 3b-Foundn</td>
<td>HUM 4554* req# 3d-Appl</td>
</tr>
<tr>
<td>PHI 3035* req# 3b-Appl</td>
<td>PHI 4341* req# 4-ResElec</td>
</tr>
<tr>
<td>Elective* Check restrictions</td>
<td>Elective* Check restrictions</td>
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<tr>
<td>Elective* Check restrictions</td>
<td>Elective* Check restrictions</td>
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Senior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>ANT 3245* req# 3c-Tradtns</td>
<td>PHI 4910 Seminar</td>
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<tr>
<td>Elective* Check restrictions</td>
<td>Elective* Check restrictions</td>
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<tr>
<td>Elective* Check restrictions</td>
<td>Elective* Check restrictions</td>
</tr>
<tr>
<td>Elective* Check restrictions</td>
<td>Elective* Check restrictions</td>
</tr>
</tbody>
</table>

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 courses; 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

The UCF General Education Program (GEP) is described in the section, General Education Program, found elsewhere in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E., below to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations
1. Take ENC 1100s
2. Take ENC 1102

3. Prefer SPC 1016
B. Cultural and Historical Foundations
9 hrs
1. Take MAC 2311, Calculus with Analytic Geometry I, (4 hrs)
Note: College algebra and trigonometry are prerequisites for Calculus I. See the course description.
2. Take STA 3032 (3 hrs)
Note: Calculus II is the prerequisite for this course.
D. Social Foundations
6 hrs
1. Take ECO 2013 or ECO 2023
2. Take ANT 2000, PSY 2012, or SYG 2000
E. Science Foundations
7 hrs
1. Take PHY 2048/48L

2. 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 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* GEP
MAC 2312 Calculus with Analytic Geometry II* 4 hrs
MAC 2313 Calculus with Analytic Geometry III* 4 hrs
MAP 2302 Differential Equations* 3 hrs
PHY 2048/48L Physics for Engineers & Scientists I* GEP
PHY 2049/49L Physics for Engineers & Scientists II* 4 hrs
ENC 1101 Composition I GEP
ENC 1102 Composition II GEP
Humanities Courses GEP
Social Science Courses GEP
Humanities or Social Sciences GEP

3. Courses Required for the Engineering Core (22 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with required courses for the major listed in A. 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 111C Engineering Computer Graphics 2 hrs
EGN 1007C Engineering Concepts & Methods 1 hr
EGN 3211 Engineering Analysis & Computation 3 hrs
EGN 3210 Engineering Analysis - Statics 3 hrs
EGN 3211 Engineering Analysis - Dynamics 3 hrs
EGN 3358 Thermo-Fluids-Heat Transfer or 3 hrs
EGN 3343 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 2 hrs
EIN 3234 Introduction to IE & MS 2 hrs
EIN 3314C Work Measurement & Design 3 hrs
EIN 3364 Principles of Cost Engineering 3 hrs
EIN 4118C IE Applications of Computers 3 hrs
EIN 4242C Human Engineering 3 hrs
EIN 4333C Industrial Control Systems 3 hrs
EIN 4364C Industrial Planning & Design 3 hrs
EIN 4391C Manufacturing Engineering 3 hrs
EIS 4221 Empirical Methods for IE 3 hrs
EIS 4234 Quality Engineering 3 hrs
EIS 4312 Operations Research 3 hrs
EIS 4523C Systems Simulation 3 hrs

5. Approved Technical Electives (3 hrs)
Technical electives are available in the BSEI 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 4116C Systems Analysis & Design
- EIN 4891C IE Senior Design Project
- Take the Fundamentals Exam during the senior year.

**7. Foreign Language Requirements**

(0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None.

**8. University Minimum Graduation Requirements**

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

**Total Semester Hours Required:** 128 hours

**Related Programs:** Mechanical Engineering.

**Related Minors:** none

**Transfer Notes:**

- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

**Tentative Course Schedule for Entering Freshmen**

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

**Industrial Engineering - 128 semester hours required**

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Fall</th>
<th>12 hrs</th>
<th>Spring</th>
<th>12 hrs</th>
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<tbody>
<tr>
<td>*CHS 1440 Fund of Cmns/Engrs</td>
<td>4</td>
<td>*ENC 1102 English Comp II</td>
<td>3</td>
</tr>
<tr>
<td>*ENC 1101 English Comp I</td>
<td>3</td>
<td>*MAC 2312 Calc with Analy Geo II</td>
<td>4</td>
</tr>
<tr>
<td>*MAC 2311 Calc with Analytic Geol</td>
<td>4</td>
<td>EGN 1006C Intro to Eng</td>
<td>1</td>
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<tr>
<td>EGN 1006C Intro to Eng</td>
<td>1</td>
<td>*PHY 2049L Phys Engr/Sci I</td>
<td>4</td>
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**Summer**

<table>
<thead>
<tr>
<th>9 hours</th>
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<tbody>
<tr>
<td>EGN 3211 Eng Anal-Comp</td>
</tr>
<tr>
<td>*SPEC 1016 Tech Presentations</td>
</tr>
<tr>
<td>*ECE 2013 Macromicroeconomics</td>
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<tr>
<td>ECO 2023 Microeconomics</td>
</tr>
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**SECOND YEAR**

<table>
<thead>
<tr>
<th>Fall</th>
<th>13 hrs</th>
<th>Spring</th>
<th>12 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>*PHY 2049L Phys Engr/Sci II</td>
<td>4</td>
<td>EGN 3321 Engr Anal-Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3310 Engr Anal-Statistics</td>
<td>3</td>
<td>*MAP 2302 Diff Equations</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3304 Intro to IE &amp; Mgt Sys</td>
<td>2</td>
<td>STA 3023 Prob &amp; Stats Engrs</td>
<td>3</td>
</tr>
<tr>
<td>*MAC 2313 Calc with Analytic Geo III</td>
<td>4</td>
<td>EGN 3373 Prin of Elec Eng</td>
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<table>
<thead>
<tr>
<th>Summer</th>
<th>10 hours</th>
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<tbody>
<tr>
<td>EGN 3365 Strctr &amp; Prop Mtls</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3613 Engrg Econ Anal</td>
<td>2</td>
</tr>
<tr>
<td>*Social Foundations 2</td>
<td>3</td>
</tr>
<tr>
<td>*ECE 1111C Cmpt Graphics</td>
<td>2</td>
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</tbody>
</table>

**THIRD YEAR**

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<tr>
<th>Fall</th>
<th>12 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
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</thead>
<tbody>
<tr>
<td>EIN 3314C Work Meas &amp; Dsgn</td>
<td>3</td>
<td>EIN 4364C Indus Fcty Pln/Dsgn</td>
<td>3</td>
</tr>
<tr>
<td>EIN 4118C IE Computer Appl</td>
<td>3</td>
<td>ESI 4221 Empirical Mthds - IE</td>
<td>3</td>
</tr>
<tr>
<td>EIN 3354 Princ of Cost Engnrng</td>
<td>3</td>
<td>ESI 4523C Systems Simulation</td>
<td>3</td>
</tr>
<tr>
<td>ESI 4312 Operations Research</td>
<td>3</td>
<td>EIN 4243C Human Engrng</td>
<td>3</td>
</tr>
<tr>
<td>EIN 4333C Indusr Cont Sys</td>
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</table>

**Summer**

<table>
<thead>
<tr>
<th>9 hours</th>
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</thead>
<tbody>
<tr>
<td>EGN 4624 Engineering Admin</td>
</tr>
<tr>
<td>EGN 3358 Therm-Flds-Hi Trans or EGN 3343 Thermodynamics</td>
</tr>
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</table>

**FOURTH YEAR**

<table>
<thead>
<tr>
<th>Fall</th>
<th>12 hrs</th>
<th>Spring</th>
<th>12 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Science Foundation II</td>
<td>3</td>
<td>EIN 4891C IE Sr. Design Proj</td>
<td>3</td>
</tr>
<tr>
<td>EIN 4116C Sys Anal &amp; Dsgn</td>
<td>3</td>
<td>Technical Elective</td>
<td>3</td>
</tr>
<tr>
<td>ESI 4234 Quality Engineering</td>
<td>3</td>
<td>*Cultural &amp; History III</td>
<td>3</td>
</tr>
<tr>
<td>*Cult &amp; Hist Foundations</td>
<td>3</td>
<td>EIN 4391C Mgr. Engr.</td>
<td>3</td>
</tr>
</tbody>
</table>

**Notes:**

- Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
- EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

**Integrated BS/MS Degree Program**

The IEMS department offers the Integrated BS/MS Program to students of high academic standing. This program allows up to nine graduate hours to be substituted for specified BSIE requirements. See advisor for appropriate substitutions.

**INFORMATION SYSTEMS TECHNOLOGY (B.S.) AS to BS Track**

**Note:** For detailed information about this program, see description in the AS to BS Program section.

**INFORMATION SYSTEMS TECHNOLOGY (B.S.) College of Engineering and Computer Science Engineering Technology (ENT) Department ENGR 207**

Coordinator: Bahman Motlagh
407-823-4748 Fax: 407-823-4746
http://www.ent.ucf.edu

**Admission Requirements**

- Students should complete 33 credit hours of lower level technical courses at a community college. Technical courses will be accepted in the following areas: networking, programming, information technology, computer science, and computer engineering and technology or closely related disciplines.

**Degree Requirements**

- Students should check with their ENT 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)
- B. Cultural and Historical Foundations
  (3 hrs taken in AS degree program)
- C. Mathematical Foundations
  (completed in AS degree program)
- D. Social Foundations
  (6 hrs)
- E. Science Foundations
  (6 hrs)

**2. Engineering Technology Core Courses**

(26 hrs)

- ETE 3651C Computer Applications
- CET 3010 Intro to Info Technology
- STA 2023 Statistical Methods I
- ETI 4448 Applied Proj Mgmt
- ENC 3241 Writing for the Technical Professional
- EET 3085C Electricity & Electronics
- CET 3323C Digital Technology
- CET 2364 Systems Applications in C

**3. Lower Level Required Courses Taken at Community College**

(33 hrs)
4. Required Technical Courses
   (21 hrs)
   CET 4427  Applied Database I  3 hrs
   CET 3383  Applied Systems Analysis I  3 hrs
   CET 4508  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 4523  Applied Systems Analysis II  3 hrs
   CET 4429  Applied Database II  3 hrs
   CET 4583  Web Base Systems I  3 hrs
   CET 4584  Web Base Systems II  3 hrs
   CET 4933  Computer & Networks Security  3 hrs
   STA 5937  Data Mining I  3 hrs

6. Departmental Exit Requirements
   none

7. Foreign Language Requirements
   (0-8 hrs)
   Admission: Two years of one foreign language in high school, or
   one year of one foreign language in college (or equivalent proficien-
   cy 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 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 semester hours of Summer credit (if applica-
   ble)

Total Semester Hours Required: 128 hours

Related Programs: none
Related Minors: none

Transfer Notes:
□ Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) require-
ments of that institution meet have thereby satisfied UCF GEP require-
ments.
□ Students entering a UCF undergraduate program and having a
previously earned baccalaureate degree from an accredited insti-
tution 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 equivalen-
city 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 stu-
dents who plan on completing their upper division engineering tech-
nology 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 Tech Elective  3
   CET 3010 Intro to Info Tech  3 EET 3051C Comp Appl  3
   CET 2364 Systems Apps in C  3 STA 2023 Statistical Methods  3
   CET 3323C Digital Tech  4 CET 4483 Intro to Local Area Net  3
   Summer 9 hrs
   CET 4333 Comp Org & Design  3
   ENC 3241 Tech Rep Writing  3
   ETI 4448 Applied Proj Mgmt  3

Senior Year
   Fall 12 hrs  Spring 12 hrs
   CET 4505 Appl Oper Sys I  3 Tech Elective  3
   CET 4427 Appl Database I  3 CET 4483 Intro to Local Area Net  3
   CET 3752 Intro to Telephony  3 Tech Elective  3
   CET 4748 Wide Area Networks I  3 Tech Elective  3

INFORMATION TECHNOLOGY (B.S.)

College of Engineering and Computer Science
School of Computer Science CSB 201

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
   (37 hrs)
   A. Communication Foundations
      Select ENC 1101, ENC 1102
      Prefer SPC 1016
   B. Cultural and Historical Foundations
      9 hrs
   C. Mathematical Foundations
      Select MAC 2147 Math for Calculus
      Select STA 2023, Statistical Methods I
   D. Social Foundations
      Select ECO 2013 Microeconomics
      Select ECO 2023 Microeconomics
      Select PSY 2012 General Psychology
   E. Science Foundations
      Select PHY 2053C College Physics I
      Select PHY 2054C College Physics II
      Select one additional science
   F. Ethics Foundations
      PHI 3626 Ethics in Science and Technology
      3 hrs

2. Common Program Prerequisites
   (3 hrs)
   MAC 2147 Math for Calculus
   STA 2023 Statistical Methods I
   ECO 2013 Microeconomics
   PHY 2053C College Physics I
   3 hrs

3. Core Requirements
   (42 hrs)
   COP 3223 C Programming Language
   COP 3502C Computer Science I
   COP 3503C Computer Science II
   COP 3330 Object Oriented Programming
   MAD 2104 Foundations of Discrete Mathematics
   EEL 3041 Circuit Analysis
   EEL 3620 Information Theory
   CDS 2369 Computer Architecture Concepts
   CDS 2545C Database Concepts
   EEL 4882 Eng. Sys. SW (Operating Systems)
   COP 4610L OS Laboratory
   CET 3285 Computer Network Concepts
   or CET 4483 Intro to Local Area Network
   or CET 4483 Intro to Local Area Network Tech.
   CDA 4505C Network Laboratory
   COP 4910 Frontiers of Information Technology
   3 hrs
   3 hrs
   3 hrs
   3 hrs
   3 hrs
   3 hrs
   3 hrs
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   3 hrs
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   3 hrs
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   3 hrs
   3 hrs

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 can substitute for the Frontiers in
Information Technology (COP 4910) requirement.
UCF Degree Programs

4. Support Courses (6 hrs)
   - ENC 3241 Technical Report Writing 3 hrs
   - CRW 3930 Creative Writing (section for IT majors) 3 hrs

5. Restricted Electives (15 hrs)
   - 15 hours of upper division courses taken outside of the information technology core requirements. At least nine of these hours must be at or above the 4000 level. The remaining six are at the 3000 level or above. These courses are in areas of the student's choosing. The only restriction is on the level of the courses, not the departments from which they come. However, students are strongly advised to make this a cohesive set of courses. Many departments have plans whereby students can achieve a certification at 15 credits, and a minor at 18. No co-operative education or internship hours are allowed.

6. School Exit Requirements
   - Complete an exit interview with an assigned faculty advisor
   - Computer competency by completion of major

7. Free Electives (17 hrs)

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after any CLEP award
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Computer Science, Computer Engineering, Management Information Systems

Related Minors and Certificates: Information Technology, Computer Science

Transfer Notes:
- Grades below “C” (2.0) are not accepted
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

FIRST YEAR
- Fall 17 hrs
  - ENC 1101 English Comp I 3
  - ENC 1102 English Comp II 3
  - SPC 1600 Oral Communications 3
  - MAC 2147 Math for Calculus 3
  - COP 3223 C Programming 3
  - Free Elective 3

- Spring 15 hrs
  - ENC 1101 English Comp I 3
  - ENC 1102 English Comp II 3
  - MAD 2104 Found of Discrete Math 3
  - COP 3502C Comp Science I 3
  - ECO 2013 Macroeconomics 3
  - PSY 2012 Psychology 3

SECOND YEAR
- Fall 16 hrs
  - COP 3330 Intro to O/OJava 3
  - PHY 2053C College Physics I 4
  - EUH 2000 Western Civil I 3
  - Free Elective 3

- Spring 15 hrs
  - ENC 1101 English Comp I 3
  - ENC 1102 English Comp II 3
  - STA 2023 Statistical Methods I 3
  - CGSC 2545 Database Concepts 3
  - EUH 2001 Western Civil II 3
  - BSC 1005 Biological Principles 3

THIRD YEAR
- Fall 15 hrs
  - EEL 4882 Eng Sys S/W 3
  - EEL 3041 Circuit Analysis 3
  - ENC 3241 Tech Rept Writing 3
  - CET 4483 Intro to LAN Tech or COP 3502C Comp Science I 3
  - Free elective 3

- Spring 12 hrs
  - CGSC 5269 Comp Arch Concepts 3
  - COP 4610L OS Laboratory 3
  - PHY 3626 Adv Ethics in Sci & Tech 3
  - Upper division elective 3

FOURTH YEAR
- Fall 15 hrs
  - EEL 3520 Information Theory 3
  - CDA 4506C Network Laboratory 3
  - Upper division elective 3
  - Upper division elective 3
  - Free Elective 3

- Spring 15 hrs
  - COP 4910 Frontiers of IT 3
  - CRW 3930 Creative Writing 3
  - Upper division elective 3
  - Upper division elective 3
  - Free Elective 3

INTERPERSONAL COMMUNICATION (B.A.)
College of Arts and Sciences
Nicholson School of Communication, COM 258
407-823-2852
http://www.cas.ucf.edu/communication
E-mail: communication@ucf.edu
K. Phillip Taylor

Admission Requirements None

Degree Requirements
- Students who change degree programs and select this major must select the most current catalog.
- Co-op or internship credit can be used in this major.
- Students should consult with a departmental advisor.
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF School of Communication.
- Students electing both a major and minor in the School must take the minor courses in excess of the 120 hours required for graduation.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations
     - Select ENC 1101 & 1102 Composition 6 hrs
     - Select SPC 1600 Fund Oral Communication 3 hrs
   - B. Cultural and Historical Foundations
     - Select CLAST, and nine semester hours of Summer credit (if applicable)
     - Select STA 2014 Principles of Statistics 3 hrs
   - C. Mathematical Foundations
     - Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
   - D. Social Foundations 6 hrs
   - E. Science Foundations 6 hrs

2. Common Program Prerequisites
   - SPC 1600 Fund Oral Communication
   - GEP

3. Core Requirements (24 hrs)
   - STA 2014C Principles of Statistics
   - COM 3010C Communication & Human Relations
   - COM 3310 Communication Research Methods
   - PUB 4110C Public Relations Publications
   - SPC 3301 Interpersonal Comm
   - SPC 4331 Nonverbal Communication
   - SPC 4426 Group Dynamics
   - SPC 4540 Attitudes and Communication
   - ENC 3250 Professional Writing

4. Restricted Electives (9 hrs)
   - Select from the following list:
     - SPC 3513 Argumentation and Debate
     - COM 3013 Communication and the Family
     - COM 4016 Gender Issues in Communication
     - COM 4461 Intercultural Communication
     - COM 4462 Conflict Management
     - COM 4941 Internship
     - COM 3013 Communication and the Family

5. External Restricted Electives (9 hrs)
   - A minimum of nine upper division credit hours selected from Social Science courses in Anthropology, Criminal Justice, Legal Studies, Political Science, Psychology, Public Administration, and Sociology.

6. School Exit Requirements
- Achieve a “C” (2.0) or better GPA in required UCF Communication courses
- To avoid delaying graduation, you must request a review of requirements before registering for your last term.
- Computer Competency met by a Computer Science course or by departmental assessment.

7. Foreign Language Requirements (0-8 hrs)
   - Admission: Met by graduation requirement
   - Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern
Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives  (variable)
Select primarily from upper level courses. May be 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 Programs: Organizational Communication
Related Minors: Organizational Communication, Mass 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

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<tr>
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Senior Year

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JOURNALISM (B.A.)
College of Arts and Sciences
Nicholson School of Communication,
COM 244, 407-823-2839,
http://www.cas.ucf.edu/communication
E-mail: journalism@ucf.edu
Fred Fedler

Limited Access program

Admission Requirements
- Students should apply to become Journalism majors only after completing all requirements for admission. Deadlines are:
  - October 1, 2005 for Spring 2006
  - February 1, 2006 for Summer 2006
  - July 1, 2005 for Fall 2006
- Attain an overall minimum 2.25 GPA based on a minimum of 30 credit hours of college work. Note: meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis. The GPA cut-off for the previous acceptance cycle was 3.45.
- Admission is not strictly based on GPA.
- Meet a grammar proficiency standard. Students with an “A” in both ENC 1101 and ENC1102 have satisfied the requirement. All others must pass a grammar proficiency exam administered by UCF.
- Have acceptable keyboard skills and submit a letter demonstrating commitment to the field.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- The Journalism faculty strongly recommends that majors work for a student newspaper. In addition, majors may obtain an off-campus internship with a commercial weekly or daily newspaper or with a magazine. To enroll for credit, students must have a 2.5 GPA in their required major courses. Students with less than a 2.5 GPA will not be given academic internship credit. Students can enroll in a maximum of two 3-credit internships. However, the internships must be with different employers, and students cannot exceed a total of seven credits of internship and practicum credits combined.
- A portfolio of representative work must be submitted to, and approved by, a faculty committee at least one semester before graduation. At least 75% of the work must be produced while at UCF.
- Co-op or internship credit cannot be used in this major without prior approval.
- Students should consult with a school advisor.
- School Residency Requirement consists of at least 24 semester hours including JOU 2100C and regularly scheduled 3000-4000 level courses taken from the UCF School of Communication.
- All students are required to pay a fee for equipment insurance.
- Students electing both a major and minor in the School must take the minor courses in excess of the 120 hours required for graduation.
- Students enrolled in the major may not take more than 40 total credit hours from the Nicholson School of Communication.
- Students enrolled in the major must take at least 65 hours in the liberal arts and at least 80 hours outside the Nicholson School of communication.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
A. Communication Foundations
   Select ENC 1101 & 1102 Composition 6 hrs
   Select SPC 1600 Fund Oral Communication 3 hrs
B. Cultural and Historical Foundations
   9 hrs
C. Mathematical Foundations
   6 hrs
   Select MGF 1106 Finite Mathematics 3 hrs
   (may substitute a higher level math)
   Select CGS 1060C Intro to Computer Sci or
   STA 2014C Principles of Statistics 3 hrs
D. Social Foundations
   6 hrs
E. Science Foundations
   6 hrs
LEGAL STUDIES (B.A., B.S.)
College of Health and Public Affairs
HPA 311, 407-823-2603
http://www.cohpa.ucf.edu/crim jus/
Undergraduate Program Director and Pre-Law Advisor: David Slaughter
E-mail: dslaugh@mail.ucf.edu
Admission Requirements  none
Degree Requirements
■ Students who change degree programs and select this major must adopt the most current catalog
■ Students should complete the General Education Program before transferring within the Florida Public University/Community College System
■ Students should consult with a departmental advisor
■ The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
■ 33 hours of PLA coursework must be taken at UCF
■ 2.0 in all PLA work at UCF and overall

1. UCF General Education Program  (36 hrs)
   A. Communication Foundations  9 hrs
      (SPC 1600 preferred)
   B. Cultural Historical Foundations  9 hrs
   C. Mathematical Foundations  6 hrs
      Select MGF 1106
      Select CGS 1060C
   D. Social Foundations  6 hrs
   E. Science Foundations  6 hrs

2. Common Program Prerequisites  none

3. Core Requirements  (18 hrs)
   PLA 3013  Law and the Legal System  3 hrs
   PLA 3104  Legal Research*  3 hrs
   PLA 3155  Legal Writing  3 hrs
   PLA 3201  Civil Practice and Procedure  3 hrs
   PLA 3610  Property and Real Estate Law  3 hrs
   PLA 4935  Caspstone: Legal Issues*  3 hrs
   NOTE: Courses marked with asterisk (*) must be completed with a minimum grade of "C" (2.0)

4. Upper Division Restricted Electives  (24 hrs)
   24 additional hours of Legal Studies coursework selected in consultation with an advisor

5. Supporting Courses  (9-15 hrs)
   Students pursuing the B.A. degree must complete nine semester hours of supporting courses chosen with the approval of the student’s advisor. Students pursuing the B.S. degree must complete 15 hours of supporting courses chosen with the approval of the student's advisor.

6. Specializations
   Students may earn a specialization within the general program of study. The specializations do not substitute for the general legal studies degree 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 Division courses.

The following electives must be completed with a minimum GPA of “C” (2.0): PLA 4020, PLA 4240, PLA 4910

The total semester hours required is 120.

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.

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.

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 distributed learning. For more information, see http://distrib.ucf.edu/home.

Graduation:
Co-op or internship credit cannot be used in this major
Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas.
Non-approved independent studies will not be counted towards the major.
Students must earn at least a “C” (2.0) in each restricted elective course.
Students must consult with a Liberal Studies advisor to enter the program.
Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.
No courses can count in more than one subject area or in a subject area and a minor.
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 STA 1060C Statistics Using Excel (may substitute a higher level computer science or statistics course) 3 hrs
STA 2014C Principles of Statistics 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites
3. Restricted Electives (36 hrs)
Students must complete two different subject area concentrations from among those specified below.
Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses). Students 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
UCF Degree Programs

well as 18 upper division hours, in the two areas combined

See the Liberal Studies Advising Team for details regarding each area

Arts
Behavioral and Social Sciences
Biological Sciences
Commerce
Communication
Computer Science
Education
Engineering
Health
Humanities
Languages
Letters
Mathematical Sciences
Physical 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 requirement.

Note: Students entering without having met the admission requirements must do so in order to graduate

7. Electives (variable)
Select primarily from upper level courses, with Liberal Studies advisor’s approval. May be outside of the department.

8. University Minimum Exit Requirements

A 2.0 UCF GPA
60 semester hours earned after CLEP awarded
48 semester hours of upper division credit completed
30 of the last 36 hours of course work must be completed in residency at UCF
A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 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.)

College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

College of Engineering and Computer Science
School of Electrical Engineering and Computer Science, CSB 201
E-mail: computerscience@ucf.edu
Mark Llewellyn, 407-823-2341

There are numerous opportunities in industry for qualified people to work in the broad area of Information Technology (IT). Computer Science represents only a part of this IT umbrella. Students can go beyond a narrower technical focus to include system, network, and database administration; business principles and behavior; social science behavior and theories; and other areas.

This LS-CIT track fills the gap between the fully accredited degree program in Computer Science which emphasizes the scientific aspects of computing, and the needs of the IT industry for people with skills in broader areas of information technology. By completing this track within Liberal Studies, students can accentuate those areas of computer information and application, while de-emphasizing the mathematical and physical science components of Computer Science.

The program is administered through the Office of Liberal and Interdisciplinary Studies in the College of Arts and Sciences and is designed for academic flexibility. It recognizes that many combinations of courses meet the needs of individual students.

Admission Requirements none

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog
Students must have declared a Liberal Studies major at least one semester before graduation
Co-op or internship credit cannot be used in this major
Students must earn at least a "C" (2.0) in each restricted elective and minor course

Students should consult with departmental advisors within both the Liberal Studies program and Computer Science when entering the program

Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

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
- Biological Sciences
- Commerce
- Communication
- Education
- Engineering
- Health
- Humanities
- Languages
- Letters
- Mathematical Sciences
- Physical Sciences
- Public Affairs

5. Program Exit Requirements
- A grade of "C" or above (2.0) is required for each course taken in the subject areas and the 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

**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.)**

**College of Arts and Sciences**

**Liberal Studies Program, CNH 201**

[http://www.cas.ucf.edu/liberal_studies](http://www.cas.ucf.edu/liberal_studies)

**E-mail:** ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

**Admission Requirements**
- none

**Degree Requirements**
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have declared a Liberal Studies major at least one semester before graduation.
- Internship credit cannot be used in this major without prior written permission of a Liberal Studies advisor.
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major.
- Co op credit cannot be used in this major.
- Students must earn at least a “C” (2.0) in each required course in the core and subject areas.
- Students should consult with a Liberal Studies advisor when entering the program.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all forty-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)
- (Note: The italicized courses fulfill both the program requirements and the GEP. These required selections may raise the total GEP hours.)
- Communication Foundations 9 hrs
- Cultural and Historical Foundations 9 hrs
- Mathematical Foundations 6 hrs
- Select MAC 2311 Calculus or MAC 2233 (PR: MAC 1105 and MAC 1114 or equivalent) Select STA 2023 Statistical Methods I 8 hrs
- Social Foundations 6 hrs
- Science Foundations 6 hrs
- Select BSC 2010C Biology I
- Select CHM 2045C Chemistry Fundamentals (PR: High school chemistry or CHM 1032) 6 hrs

2. **Common Program Prerequisites**
- none

3. **Core for Environmental Studies** (23 hrs)
- Required Selections: Environmenal Sciences: Sciences concentration
- Physical/Mathematical Sciences
  - CHM 2045C Chemistry Funds I & Lab GEP
  - MAC 2233 Concepts of Calculus (or equivalent) GEP
  - CHM 2046 Chemistry Fundamentals II & Lab 4 hrs
  - CHM 2205 Introduction to Organic &Biochemistry 5 hrs
- LifeSciences
  - BSC 2010C Biology I GEP
  - BSC 2011C Biology II (PR: BSC 2010C) 4 hrs
  - PCB 3044 Principles of Ecology & Lab 4 hrs
  - & 3044L (PR: BSC 2010C and BSC 2011C) 4 hrs
- Social Science &Humanities
  - PHI 3640 Environmental Ethics 3 hrs
  - SYD 4510 Environmental Sociology 3 hrs

4. **Subject Area:** Environmental Studies Fundamentals (15 hrs)
- IDS 3150 Foundations of Environmental Studies 3 hrs
- ECO 4302 Economics and the Environment 3 hrs
- GEO 3151C GIS for Environmental Studies 3 hrs
- or equivalent
- PUB 5203 Environmental Politics 3 hrs
- IDS 4156 Solving Environmental Problems or alternative course 3 hrs

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**UCF Degree Programs**

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185
5. Subject Areas: Restricted Electives (18 hrs)

Students will complete one of the concentrations listed below. Each concentration requires a minimum of eighteen credit hours. A student completing the Environmental Studies core can reasonably expect to meet entry requirements for most electives listed.

Select 18 hours in one concentration

Sciences Concentration

Note: This subject area is available only to Liberal Studies - Environmental Studies track majors.

BCH 4053
Biochemistry I
(PR: CHM 2210 & 2211)

BCH 4054
Biochemistry II
(PR: BCH 4053)

BOT 315C
Local Flora

BOT 4156C
Florida Wildflowers

BOT 4303C
Plant Kingdom

BOT 4686C
Conservation Management of Native Plants

BOT 4713C
Plant Taxonomy

BOT 5623C
Plant Geography and Ecology

BSC 4312C
Marine Biology

CHM 3120C
Analytical Chemistry

CHS 4615
Environmental Chemistry

EES 3004
Environmental Systems

ENV 3001
Introduction to Environmental Engineering
(PR: CHM 2045 & MAC 2312)

MCB 3020C
General Microbiology

MCB 4603
Environmental Microbiology
(PR: MCB 3020C)

PCB 3023
Molecular Cellular Biology

PCB 3063
Genetics

PCB 3314
Marine Biodiversity

PCB 3442
Florida Aquatic Ecology

PCB 4302C
Physiochemical Limnology

PCB 4303C
Biological Limnology

PCB 4683
Population Biology & Evolution
(PR: PCB 3063)

PCB 4723
Animal Physiology
(PR: PCB 3023)

PCB 5045C
Conservation Biology
(PR: PCB 3063)

PCB 5326C
Ecosystems of Florida

ZOO 5815
Zoogeography
(PR: 8 hours of ZOO)

Prerequisites listed are those which are not already included in the GEP or Section II: Core for Environmental Studies.

Values, Planning, & Policy Concentration

Note: This subject area is available only to Liberal Studies - Environmental Studies track majors.

ANT 3541
Biobehavioral Anthropology

BOT 3800
Ethnobotany

ECO 4302
Economics of the Environment

ECF 4603
Urban and Regional Economic Prob

ECS 4013
Economic Development

ENC 3211
Theory and Practice of Technical Writing*

ENC 3241
Writing/Technical Professional*

ETI 3671
Technical Economic Analysis

ETI 4635
Technical Administration

GEO 4131C
Remote Sensing of Environment

INR 4351
International Environmental Law

PAD 4551
Issues in Environmental Program Mgmt

PHI 3033
Philosophy, Religion, & the Environment

PHI 4400
Philosophy of Science

PHI 4633
Ethics and Biological Science

PHM 4031
Environmental Philosophy

PLA 4651
Land Use and Environmental Law

POS 4742
GIS for Political Science

PUP 4204
Sustainability

PUP 4209
Urban Environmental Policy

PUP 4503
Government and Science

PUP 4505
Government and Science

STA 4163
Stat Methods I*

STA 4164
Stat Methods II*

STA 4222
Sample Survey Methods*

*Note: Not more than 9 of the 18 credits required can be taken in the "Modes of Analysis and Communication" area, which is identified by asterisks.

6. Program Exit Requirements (0-8 hrs)

- A grade of “C” or above (2.0) is required for all courses taken in each of the subject areas and core
- Computer Competency is met by completing this major

7. Foreign Language Requirements (0-8 hrs)

- A grade of “C” or above (2.0) is required for all courses taken in each of the subject areas and core
- Computer Competency is met by completing this major

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.)

College of Arts and Sciences

Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies

E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

The Liberal Arts Track is 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 College of Arts and Sciences.

Admission Requirements

None

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each restricted elective course
- Co-op or internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major
- Students must consult with a Liberal Studies advisor before entering the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- No courses can count in more than one subject area or in a subject area and a minor
- 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
or STA 2014C Principles of Statistics or
STA 1060C Statistics Using Excel
(may substitute a higher level math)

Select CGS 1060C Intro to Computer Sci or
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites

3. Core Requirements (6 hrs)

Approved course in ethics
Approved course in critical thinking 3 hrs

4. Restricted Electives (42 hrs)

Complete an approved individualized minor, 24 hrs which must be developed with a Liberal Studies advisor

5. Program Exit Requirements (6 hrs)

IDS 49XX Directed Reading/Research 3 hrs
IDS 4970H Thesis 3 hrs

6. Foreign Language Requirements (0-8 hrs)

Admission: 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
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. 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 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

LIBERAL STUDIES - NANOSCIENCE & NANOTECHNOLOGY TRACK (B.S.)

College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

Liberal Studies Nanoscience & Nanotechnology track is a university-wide program leading to a Bachelor of Science in Liberal Studies.

Nanoscience and Nanotechnology is the study of the structure and behavior of materials at the atomic or molecular level. Through an understanding of how to manipulate atoms and molecules, it is possible to create devices and machines with unique properties and diverse applications.

The program is administered through the Office of Liberal and Interdisciplinary Studies in the College of Arts and Sciences and is designed for academic flexibility. It recognizes that there are many combinations of courses that meet the needs of individual students.

Admission Requirements

None

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared 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 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
- 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, 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 (39 hrs)

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
1. Select MGF 1106 Finite Mathematics
   (may substitute a higher level math)
2. Select STA 2014C Principles of Statistics
   (may substitute a higher level computer science or statistics course)

D. Social Foundations 6 hrs
E. Science Foundations 6 hrs
1. Prefer: PHY 2053C College Physics (prerequisites MAC 1105 and MAC 1114) or equivalent
2. Select one course from the listed choices

2. Common Program Prerequisites

None

3. Restricted 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 area

Subject Area #1
Nanoscience and Nanotechnology Area

EMA 3XXX Nanomaterials Process Engineering
UCF Degree Programs

**EMA 3XXX Nanomaterials Characterization & Appl**
**PHZ 3422 Nanophysics**
**BSC 3424 Nanobiotechnology**
**OSE 3490 Nanophotonics**
**PHI 4690 Ethics & Societal Implications in Nanotechnology**

Subject Area #2 (one of the following areas)
- Biological Science
- Computer Science
- Engineering
- Health
- Mathematical Sciences
- Physical Sciences

4. Required Minor (18 hrs minimum)
The following suggestions are appropriate for many professional schools. Consult a departmental advisor and be cognizant of the professional school's requirements.

Student must complete a minor from those offered below. The minor must not overlap with the area chosen for Subject area #2. (The area designation for each minor is listed in parentheses). The minor degree audit must be approved by, and completion of the minor certified by, the department offering the minor.

- Aerospace Studies (Engineering)
- Applied Computer Science (Computer Science)
- Astronomy (Physical Sciences)
- Biology (Biological Sciences)
- Chemistry (Physical Sciences)
- Cognitive Science (Interdisciplinary)
- Computer Science (Computer Science)
- Environmental Studies (Interdisciplinary)
- Health Science (Health)
- Mathematics (Mathematical Sciences)
- Molecular Biology & Microbiology (Biological Sciences)
- Physics (Physical Sciences)
- Psychology (Behavioral and Social Sciences)
- Space Studies (Engineering)
- Statistics (Mathematical Sciences)

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
**Note**: Students entering without having met the admission requirements must do so in order to graduate.

7. Electives (variable)
Select primarily from upper level courses, with 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
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces 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, Related Minors: Aerospace Studies, Applied Computer Science, Astronomy, Biology, Chemistry, Computer Science, Environmental Studies, Health Science, Mathematics, Molecular Biology and

Microbiology, Physics, Psychology, Space Studies, Statistics

**Transfer Notes**:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

**LIBERAL STUDIES - WOMEN'S STUDIES TRACK (B.A.)**

**College of Arts and Sciences**
**Liberal Studies Program, CNH 201**
**http://www.cas.ucf.edu/liberal_studies**

**E-mail**: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

**Women's Studies Program**
**Liberal and Interdisciplinary Studies Office, CNH 201**
**http://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, and the Women’s Studies Program in the College of Arts and Sciences.

**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 - Women’s Studies track at least one semester before graduation.
- Internship credit cannot be used in this track without prior permission.
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major.
- Co-op credit cannot be used in this track.
- Students must earn at least a "C" (2.0) in each restricted elective course.
- Students should consult with a Liberal Studies advisor when entering the degree program and regularly thereafter.
- Courses designated in 1. (General Education Program) and 2. (Common Program Prerequisites) are usually completed in the first 60 hours.
- 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 course)
  - Select STA 1060C Statistics Using Excel or
  - STA 104C Principles of Statistics (may substitute a computer science or higher level statistics course)
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (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 course)
  - Select STA 1060C Statistics Using Excel or
  - STA 104C Principles of Statistics (may substitute a computer science or higher level statistics course)
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

3. Restricted Electives (36 hrs)
- Students must complete either the Womanist/Women of Color subject area or the Women's Studies Cognate subject area
- Students must complete one subject area from those specified below
- Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses)
- Students are required to take a minimum of 18 UCF hours, as
well as 18 upper division hours, in the two areas combined.

First Study Area (or select Women's Studies Cognate Area)

<table>
<thead>
<tr>
<th>Women's of Color Area:</th>
<th>(18 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WST 3460</td>
<td>Womenist Studies</td>
</tr>
<tr>
<td>Select 15 hours from the following courses:</td>
<td></td>
</tr>
<tr>
<td>AML 3614</td>
<td>Topics in African-American Literature</td>
</tr>
<tr>
<td>ANT 4308</td>
<td>Gender Issues in Latin America</td>
</tr>
<tr>
<td>ASH 4304</td>
<td>Women in China</td>
</tr>
<tr>
<td>AML 3621</td>
<td>Ethnic Literature in America</td>
</tr>
<tr>
<td>SYD 3751</td>
<td>North American Indian Women Today</td>
</tr>
<tr>
<td>Other courses approved by the Liberal Studies Advising Team</td>
<td></td>
</tr>
</tbody>
</table>

Second Study Area (or select Womanist/Women of Color Area)

<table>
<thead>
<tr>
<th>Women's Studies Cognate Area:</th>
<th>(18 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 18 hours from the following courses:</td>
<td></td>
</tr>
<tr>
<td>AML 3614</td>
<td>Topics in African-American Literature</td>
</tr>
<tr>
<td>AML 3621</td>
<td>Ethnic Literature in America</td>
</tr>
<tr>
<td>ANT 3212</td>
<td>Peoples of the World</td>
</tr>
<tr>
<td>CCC 4463</td>
<td>Cultural Diversity in Criminal Justice</td>
</tr>
<tr>
<td>CCC 4681</td>
<td>Domestic Violence and the Justice System</td>
</tr>
<tr>
<td>EUH 5342</td>
<td>Modern Europe and the First World War</td>
</tr>
<tr>
<td>EUH 5937*</td>
<td>Social Theory/History*</td>
</tr>
<tr>
<td>HSC 3935C</td>
<td>CHIV Disease: A Human Concern</td>
</tr>
<tr>
<td>LIT 5566</td>
<td>Feminist Theory</td>
</tr>
<tr>
<td>PEM 2405</td>
<td>Self-Defense for Women and Men</td>
</tr>
<tr>
<td>PHI 3690</td>
<td>Environmental Ethics</td>
</tr>
<tr>
<td>PHI 3670</td>
<td>Ethical Theory</td>
</tr>
<tr>
<td>PHI 4300</td>
<td>Theories of Knowledge</td>
</tr>
<tr>
<td>PUP 3314</td>
<td>Minorities in Politics</td>
</tr>
<tr>
<td>SOP 2772</td>
<td>Sexual Behavior</td>
</tr>
<tr>
<td>SOP 3794</td>
<td>Psychology of Diversity</td>
</tr>
<tr>
<td>SYD 3700</td>
<td>Race and Ethnic Minorities in the U.S.</td>
</tr>
<tr>
<td>SYO 4100</td>
<td>Family Trends</td>
</tr>
<tr>
<td>SYO 4200</td>
<td>Sociology of Religion</td>
</tr>
<tr>
<td>SYO 3630</td>
<td>Sociology of Popular Culture</td>
</tr>
<tr>
<td>SYO 3650</td>
<td>Sociology and Sport</td>
</tr>
<tr>
<td>SYO 4173</td>
<td>Minority Aging</td>
</tr>
<tr>
<td>THE 3230</td>
<td>Cultural Diversity Through Theater</td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

2nd Study Area (from those below)

See the Liberal Studies Advising Teams for details regarding each area.

Arts
Behavioral and Social Sciences
Biological Sciences
Commerce
Communication
Computer Science
Education
Engineering
Health
Humanities
Languages
Letters
Mathematical Sciences
Physical Sciences
Public Affairs

4. Required Minor

Students must complete the Women's Studies minor

5. Program Exit Requirements

- A grade of "C" or above (2.0) is required for each course taken in each of the subject areas.
- Computer competency is met by CGS 1060C, STA 1060C, or departmental assessment.

6. Foreign Language Requirements

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

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 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 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

BA2 101, 407-823-2184

http://www.bus.ucf.edu

1. Admission Requirements

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (36 hrs)
   - Communication Foundations 9 hrs
   - Required: SPC 1600
   - Cultural and Historical Foundations 9 hrs
   - Mathematical Foundations 3 hrs
   - Select MAC 1105 College Algebra
   - Select CGS 2100C Computer Fundamentals for Bus 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
   - Science Foundation 6 hrs

2. Common Program Prerequisites

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

- ACC 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting
- ECO 2013 Macroeconomics
- ECO 2023 Microeconomics
- ECO 3401 Quantitative Business Tools I
- ECO 2100C Computer Fundamentals for Business
- At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO3401.

UCF Degree Programs

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UCF Degree Programs

3. Required for All Business Majors (30 hrs)
Common Body of Knowledge
First Semester in the College of Business Administration:
- GEB 3031: Cornerstone 6 hrs
- GEB 3356: Introduction to Internation Business 3 hrs

First or subsequent semesters depending on major:
- BUL 3130: Legal & Ethical Environments of Business 3 hrs
- ECO 3411: Quantitative Business Tools II 3 hrs
- FIN 3023: Business Finance 3 hrs
- MAN 3025: Management of Organizations 3 hrs
- ISM 3011: Essentials of Management Information Systems 3 hrs
- ISM 3030: Marketing 3 hrs
Last Semester:
- MAN 4720: Strategic Management 3 hrs

4. Special college and/or department requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each Common Program Prerequisites class.
- Students wanting to major in Management must apply for admission to the major.
- Any student receiving a business degree must complete one half (30) of the upper level business courses for their degree program in the UCF College of Business Administration.
- Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students must earn at least a 2.0 GPA in the major and COB.
- Students majoring in Management must earn a grade of "C" (2.0) or better in MAN 3025, MAN 4720, and each course applied toward the major.

5. Tracks
Within the Management major, students can concentrate in 3 areas of study. Courses for each are outlined below:

- Human Resource Management Track (24 hrs)
  Required Courses (15 hrs):
  - MAN 3031: Human Resource Management 3 hrs
  - MAN 4240: Organizational Theory and Behavior 3 hrs
  - MAN 4320: Recruitment and Selection 3 hrs
  - MAN 4330: Compensation Administration 3 hrs
  - MAN 4350: Training and Development 3 hrs
  Elective Courses (choose among MAN courses and BUL 4540) (9 hrs):
  - MAN Elective 3 hrs
  - MAN Elective 3 hrs
  - MAN Elective/ BUL 4540 Employment Law 3 hrs

- General Management Track (24 hrs)
  Required Courses (15 hrs):
  - ISM 3530: Quality & Productivity Management 3 hrs
  - MAN 4011: Human Relations in Management 3 hrs
  - MAN 4040: Organizational Theory & Behavior 3 hrs
  - MAN 4600: International Management 3 hrs
  - MAN 4701: Business Ethics and Society 3 hrs
  Elective Courses (choose among MAN courses and BUL 4540) (9 hrs):
  - MAN Elective 3 hrs
  - MAN Elective 3 hrs
  - MAN Elective/ BUL 4540 Employment Law 3 hrs

- Management Track: Entrepreneurship (24 hrs)
  Required Courses (15 hrs):
  - MAN 3031: Human Resources Management 3 hrs
  - MAN 4082: Entrepreneurship 3 hrs
  - MAN 40XX: Business Plan Preparation 3 hrs
  - GEB 4111: New Venture Finance or FIN 3470: Small Business Finance 3 hrs
  - MAR 3641: Market Intelligence or MAR 3880: E-Marketing 3 hrs
  Elective Courses (choose among MAN courses and BUL 4540) (9 hrs):
  - MAN Elective 3 hrs
  - MAN Elective 3 hrs
  - MAN Elective/ BUL 4540 Employment Law 3 hrs

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

8. Electives*** (variable)
Total Semester Hours Required 120 hrs

Community/Junior College Transfer Notes
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- 3000 & 4000 level courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT MAJORS

Freshman
1st Term 15 hrs 2nd Term 15 hrs
- ENC 1100* 3 - ENC 1102* 3
- Cult-Hist I* 3 - Cult-Hist II* 3
- SPC 1600 3 - Art/Music/Lit 3
- Elective 3 - Elective 3

Sophomore
1st Term 15 hrs 2nd Term 15 hrs
- ECO 2023* 3 - ECO 2013* 3
- ACG 2021* 3 - ACG 2071* 3
- SCI 1010 3 - SCI 1011 3
- ***Elective 3 - ***Elective 3
- ***Elective 3 - ***Elective 3

***Elective 3 - CGS 2100C* 3

Must complete nine hours in a summer semester

General Management Track

0-8 hrs
MAN 3025  3  FIN 3403  3
**MAN Elective  3

Senior
1st Term  15 hrs  2nd Term  15 hrs
GEB 3356  3  MAN 4701  3
MAN 4240  3  MAN 4600  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  MAN 3470  3
GEB 3035  3  MAN 4370  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 4230  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 4002  3
GEB 3356  3  ECO 3411  3
MAR 3023  3  BUL 3130  3
MAN 3025  3  ISM 3011  3

Senior
1st Term  15 hrs  2nd Term  15 hrs
GEB 4111/FIN 3470  3  MAN 4720  3
MAR 3641/3880  3  MAN 49XX  3
MAN 3301  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)
      Required: SPC 1600
   B. Cultural and Historical Foundations (9 hrs)
   C. Mathematical Foundations (3 hrs)
      Select MAC 1105 College Algebra
      Select MGF 1106 College Algebra
   D. Social Foundations (3 hrs)
      Select ECO 2013 Macroeconomics or
      ECO 2023 Microeconomics
      Select one: PSY 2012, SYG 2000, ANT 2000
   E. Science Foundation (6 hrs)

2. Common Program Prerequisites
   Must be completed with a 2.5 or better.
   - ACG 2021 Principles of Financial Accounting
   - ACG 2071 Principles of Managerial Accounting
   - ECO 2013 Macroeconomics
   - ECO 2023 Microeconomics
   - CEG 2100C Computer Fundamentals for Business
   - *ECO 3401 Quantitative Business Tools I
   * At UCF, students who have completed MAC 2233 and STA 2023 will be
     waived from ECO 3401. Students who have not completed both classes with a
     "C" (2.0) or better must take ECO 3401.

3. Required for All Business Majors (30 hrs)
   Common Body of Knowledge
   First Semester in the College of Business Administration:
   - GEB 3031 Cornerstone  6 hrs
   - GEB 3356 Introduction to International Business  3 hrs
   First or subsequent semesters depending on major:
   - BUL 3130 Legal & Ethical Environments of Business  3 hrs
   - ECO 3411 Quantitative Business Tools II  3 hrs
   - FIN 3403 Business Finance  3 hrs
   - MAN 3025 Management of Organizations  3 hrs
   - 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 order to graduate.
   - All College of Business Administration students are expected to have access to late model computers and the software needed to complete class assignments. This requirement is especially important for MIS majors. Contact a department advisor for the current expectations.
   - Students must earn at least a 2.0 GPA in the major and COB.
   - Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisite class.

5. Required Courses (22 hrs)
   - ISM 3005 MIS Techniques  4 hrs
   - ISM 4113 Information Systems Analysis & Design  3 hrs
   - ISM 4130 Information Systems Implementation  3 hrs
   - ISM 4212 Database Management Systems  3 hrs
   - ISM 4220 Distributed Information Systems  3 hrs
   - ISM 4300 Information Technology Management  3 hrs
   - ISM 4409 Decision Support Systems  3 hrs
   - Plus two of the following: (6 hrs)
     - Any 3000 or 4000 level ISM prefix course, excluding those listed in the minor.

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 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)
Community/Junior College Transfer Notes

- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Professional courses should not be taken at a community/junior college. This includes the areas of MIS, Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT INFORMATION SYSTEMS MAJORS

8. Electives*** (variable)

**Total Semester Hours Required** 120 hours

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**UCF Degree Programs**

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

   - See Common Program Prerequisites

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 2023 Microeconomics
   - ECO 3401 Quantitative Business Tools I
   - CGS 2100C Computer Fundamentals for Business

3. Required for All Business Majors

   - See Common Program Prerequisites

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 better transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
   - Students wanting to major in Marketing must apply for admission to the major.
   - Final exams will be given during Exam Week.
   - Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
   - Students majoring in Marketing must earn a grade of "C" (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major. MAR 3023 is included in this requirement.
   - Students must earn at least a 2.0 GPA in the major and CBA.

5. Required Courses

   - See Common Program Prerequisites

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192 UNIVERSITY OF CENTRAL FLORIDA 2005-2006 Undergraduate Catalog
6. Restricted Electives – General Marketing (9 hrs)

Minimum of 3 courses required
- MAR 3323 Integrated Marketing Communication 3 hrs
- MAR 3403 Sales Force Management 3 hrs
- MAR 3880 E-Marketing 3 hrs
- *MAR 4156 International Marketing 3 hrs
- MAR 4231 Retailing Management 3 hrs
- MAR 4711 Sport Marketing 3 hrs
- MAR 4712 Healthcare Marketing 3 hrs
- MAR 4715 Entertainment Marketing 3 hrs
- *MAR 4724 Strategic Foundations in Global e-Business 3 hrs
- MAR 4841 Services Marketing 3 hrs
- MAR 4941 Marketing Internship 3 hrs

* either MAR 4156 or MAR 4724 (not both) may be taken as an elective.

7. Required Electives - Sales Track* (9 hrs)

- MAR 3403 Sales Force Management 3 hrs
- MAR 4392 Advanced Professional Selling 3 hrs
- MAR 44YY Strategic Issues in Sales 3 hrs

* Admission by department approval: Restricted to declared marketing majors. Requires submission of application by May 1. Must have earned a grade of B (3.0) or higher in MAR 3391 to apply. Department faculty committee will select a maximum of 30 sales track participants based on academic achievement, work experience, outside activities and leadership positions, and responses to questions on the application form. MAR 4XX is offered in the Fall semester; 4YY in the Spring semester.

8. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in 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)

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/mark/.

Community/Junior College Transfer Notes

- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.

UCF Degree Programs

FOUR YEAR PLAN OF STUDY – GENERAL MARKETING

Freshman

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Must complete nine hours in a summer semester

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

Junior

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Must complete nine hours in a summer semester

Senior

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Must complete nine hours in a summer semester

FOUR YEAR PLAN OF STUDY – MARKETING: SALES TRACK

Freshman

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Must complete nine hours in a summer semester

Sophomore

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

Junior

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Must complete nine hours in a summer semester

Senior

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</table>

General electives as required to reach 120 semester hours.

General electives as required to reach 120 semester hours.
**MATHEMATICS-APPLIED TRACK (B.S.)**

**College of Arts and Sciences**

**Department of Mathematics, MAP 207 407-823-6284**

http://math.ucf.edu

E-mail: math@mail.ucf.edu

H. Martin, MAP 231F, 407-823-5700,
E-mail: martin@math.ucf.edu

The Department of Mathematics offers special courses for students in the Honors Program. These courses are with an H such as MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

**Admission Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, 2312, 2313, and MAP 2302 must either be taken from, or approved by the Department of Mathematics at UCF.
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Math Department
- 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**

(Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)

- **A. Communication Foundations**
  - 9 hrs
- **B. Cultural and Historical Foundations**
  - 9 hrs
- **C. Mathematical Foundations**
  - Select MAC 2311 Calculus with Analytic Geo I 4 hrs
  - Select COP 3502C Computer Science I 3 hrs
- **D. Social Foundations**
  - 6 hrs
- **E. Science Foundations**
  - Select BSC 2010C Biology I 4 hrs
  - Select PHY 2048 & L Physics for Sci & Eng I 4 hrs

**2. Common Program Prerequisites**

(COP 3223* Intro to Programming with C 3 hrs)

- **MAC 2311** Calculus with Analytic Geo I GEP
- **MAC 2312** Calculus with Analytic Geo II 4 hrs
- **MAC 2313** Calculus with Analytic Geo III 4 hrs
- **BSC 2010C** Biology I 4 hrs
- **PHY 2048** & L Physics for Sci & Eng I & Lab GEP

*See Transfer Notes for possible substitutes

**3. Core requirements**

- **PHY 2049 & L** Physics for Eng Sci I 4 hrs
- **COP 3223** may use any COP prefix
- **MAC 2311** may use any MAC prefix
- **ENG 3310** may be replaced by ENG 1101
- **STA 2023** Statistical Methods I 3 hrs
- **MHF 3302** Logic and Proof in Mathematics 3 hrs
- **MAP 2302** Differential Equations 3 hrs
- **MAS 3105** Matrix & Linear Algebra 4 hrs
- **MAS 3106** Linear Algebra 4 hrs
- Select one course
  - **MAD 4203** Combinatorics & Graph Theory 3 hrs
  - **MAP 4153** Vector and Tensor Analysis 3 hrs
- **MAC 3407** Appl of Complex Variables 3 hrs
- **MAP 4363** Appl Boundary Value Prob I 3 hrs
- **STA 4321** Statistical Theory I 3 hrs
- **MAP 4364** Appl Boundary Value Prob II 3 hrs
- **COP 3502C** Computer Science I GEP
- **STA 4322** Statistical Theory II 3 hrs
- **MAA 4226** Advanced Calculus I 4 hrs
- **COT 4500** Numerical Calculus 3 hrs
- **MAP 4203** Mathematical Modeling 3 hrs

**4. Restricted Electives**

- **a. Applied Elective**
  - Select from COT 4210, COT 4110, COT 5507, COT 5510, EGN 3334, EGN 3335, EGN 3336, EGN 3341, STA 4102, STAT 4103, STA 4644 3 hrs

- **b. Biological or physical sciences restricted**
  - Select from PCB 3044, PCB 3063, PCB 4302C, PCB 4303C, CHM 3410, CHM 2210, PHY 3101, PHY 3323, PHY 4224, PHY 4424, PHY 4504 3 hrs

**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**

- Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

**8. University Minimum Exit Requirements**

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

**Total Semester Hours Required**

120 hours

**Related Programs:** Applied Math, Computer Science, Engineering, Math Education, Statistics

**Related Minors:** Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

**Transfer Notes:**

- Courses taken at community colleges do not substitute for UCF 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 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# 1D2-GEP 3 hrs
- ENC 1101 Composition I 3 hrs
- MAC 2311 Calc Anal Geo I 4 hrs
- STA 2023 Stat Methods I 3 hrs

**Spring**

- PHY 2048 Phy for Eng Sci I 3 hrs
- MTH 3402 Logic and in Math 3 hrs

**Sophomore Year**

**Fall**

- COP 3000* req# 1A3-GEP 3 hrs
- PHY 2048 Phy for Eng Sci I 3 hrs

**Spring**

- COT 4210 COP prefix 3 hrs
Select one course 3 hrs
MAP 2302 Differential Equations 3 hrs
STA 2023 Statistical Methods I 3 hrs
PHY 2049L Phy L Eng Sci II 1

Junior Year
Fall
AMH 2010* req# 1B-J-GE 3
COP 3223 Intro to Program C 3
MAD 4202* req# 3-Core 4
MAP 4363 Ap Bound Prob I 3
Elective* Check restrictions 4

Select PHY 2048 & L Physics for Sci & Engr I 4 hrs
Select BSC 2010C Biology I 4 hrs

Senior Year
Fall
ARH 2050* req# 1B3-GE 3
COT 4500 Numerical Calculus 3
MAC 4226 Adv Calculus I 4
STA 4221 Stat Theory I 3
COT 4210* req# 4a-ResElec 3

Select six upper division courses
COP 3402C Systems Software 3 hrs
COP 3530C Computer Science III 3 hrs
CDA 4150 Computer Architecture 3 hrs
COP 4020 Programming Languages I 3 hrs
COP 4600 Operating Systems 3 hrs
COT 4210 Discrete Computational Structures 3 hrs
or any MAA, MAD, MAP, MAS, or MTG upper division courses

MATHEMATICS - COMPUTATIONAL TRACK (B.S.)

College of Arts and Sciences
Department of Mathematics, MAP 207, 407-823-6284
http://math.ucf.edu
E-mail: math@ mail.ucf.edu
H. Martin, MAP 231H, 407-823-5700,
E-mail: martin@math.ucf.edu

The Department of Mathematics offers special courses for students in the Honors Program. These courses are designated with an H such as MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

Admission Requirements none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, 2312, 2313, and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.
- Students must earn at least a “C” (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in sections 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   (Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 2311 Calculus I 4 hrs
      Select COP 3502C Computer Science I 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations
      Select BSC 2010C Biology I 4 hrs
      Select PHY 2048 & L Physics for Sci & Engr I 4 hrs

2. Common Program Prerequisites (11 hrs)
   COP 3223* Intro to Programming with C 3 hrs
   MAC 2311 Calculus with Analytic Geo I GEP
   MAC 2312 Calculus with Analytic Geo II 4 hrs
   MAC 2313 Calculus with Analytic Geo III GEP
   BSC 2010C* Biology I GEP
   PHY 2049L&L Physics for Sci & Eng II wlab GEP
   *See Transfer Notes for possible substitutes

3. Basic Core Requirements (10 hrs)
   COP 3502C Computer Science I GEP
   PHY 2049L&L Physics for Sci & Eng II wlab 4 hrs
   STA 2023 Statistical Methods I 3 hrs
   MAP 2302 Differential Equations 3 hrs

4. Advanced Core Requirements (42 hrs)
   Select one course 3 hrs
   MHF 3302 Logic and Proof in Mathematics
   COT 3010C Intro to Discrete Structures
   ENC 3241 Writing for the Tech Professional 3 hrs
   MAS 3106 Linear Algebra 4 hrs
   MAD 4303 Combinatorics & Graph Theory 4 hrs
   MAP 4307 Appl of Complex Variables 3 hrs
   MAP 4363 Appl Boundary Value Prob I 3 hrs
   STA 4321 Statistical Theory I 3 hrs
   STA 4364 Appl Boundary Value Prob II 3 hrs
   COP 3503C Computer Science II 3 hrs
   STA 4322 Statistical Theory II 3 hrs
   MAA 4226 Advanced Calculus I 4 hrs
   COT 4500 Numerical Calculus 3 hrs
   Select one course 3 hrs
   MAP 4103 Mathematical Modeling
   MAP 4153 Vector and Tensor Analysis

5. Restricted Electives (18 hrs)
   COP 3402C Systems Software 3 hrs
   COP 3530C Computer Science III 3 hrs
   CDA 4150 Computer Architecture 3 hrs
   COP 4020 Programming Languages I 3 hrs
   COP 4600 Operating Systems 3 hrs
   COT 4210 Discrete Computational Structures 3 hrs
   or any MAA, MAD, MAP, MAS, or MTG upper division courses

6. Departmental Exit Requirements
   - Earn a grade of “C” (2.0) or better in each course required in the degree program (sections 2-5 above).
   - Participate in an exit interview, and take an Educational Testing Service major field test.
   - Computer Competency met by COP 3502C.

7. Foreign Language Requirements
   Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
   Graduation: none
   8. Electives (variable)
   Students desiring to complete a double major in both Computer Science and Applied Mathematics must also complete all the requirements of the School of Computer Science. To minimize the total hours taken for both majors, students should select an advanced computer science course for the unrestricted elective.

9. University Minimum Exit Requirements
   A 2.0 UCF GPA
   60 semester hours earned after CLEP awarded
   48 semester hours of upper division credit completed
   30 of the last 36 hours of course work must be completed in residency at UCF
   A maximum of 45 hours of extension, correspondence, CLEP, credit by Exam, and Armed Forces credits permitted
   Complete the General Education Program, the Gordon Rule, the CLAST, and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Applied Mathematics, Computer Science, Engineering, Math Education, Statistics
Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- COP 3223*: may use any programming language course with a COP prefix.
- BSC 2010C*: may use any laboratory BSC or CHM 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.
# Mathematics - Engineering/Physics Track (B.S.)

**College of Arts and Sciences**  
Department of Mathematics, MAP 207, 407-823-6284  
E-mail: math@mail.ucf.edu  
H. Martin, MAP 231F, 407-823-5700,  
E-mail: martin@math.ucf.edu

The Department of Mathematics offers special courses for students in the Honors Program. These courses are designated with an H such as MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

**Admission Requirements**  
- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, 2312, 2313 (or MAC 2281, 2282, 2283), and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.
- Students must earn at least a “C” (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in sections 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

## 1. UCF General Education Program (36 hrs)

(Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)

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<th>Category</th>
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<th>Hours</th>
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<td>A. Communication Foundations</td>
<td>MAC 2311</td>
<td>Calculus with Analytic Geo I</td>
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<tr>
<td>B. Cultural and Historical Foundations</td>
<td>MAC 2312</td>
<td>Calculus with Analytic Geo II</td>
<td>4 hrs</td>
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<tr>
<td>C. Mathematical Foundations</td>
<td>MAC 2313</td>
<td>Calculus with Analytic Geo III</td>
<td>4 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>MAC 2314</td>
<td>Biology I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>PHY 2048* &amp; L</td>
<td>Physics for Sci &amp; Engr I</td>
<td>4 hrs</td>
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*Select one course 3 hrs

## 2. Common Program Prerequisites (11 hrs)

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<th>Course Name</th>
<th>Hours</th>
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<tr>
<td>COP 3223</td>
<td>Intro to Programming with C</td>
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<tr>
<td>MAC 2311</td>
<td>Calculus with Analytic Geo I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAC 2312</td>
<td>Calculus with Analytic Geo II</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAC 2313</td>
<td>Calculus with Analytic Geo III</td>
<td>4 hrs</td>
</tr>
<tr>
<td>BSC 2010C*</td>
<td>Biology I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PHY 2048* &amp; L</td>
<td>Physics for Sci &amp; Engr I</td>
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*Select Transfer Notes for possible substitutes

## 3. Basic Core Requirements (10 hrs)

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<td>COP 3502C</td>
<td>Computer Science I</td>
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<tr>
<td>PHY 2049L &amp; L</td>
<td>Physics for Sci &amp; Eng I</td>
<td>3 hrs</td>
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<td>MAP 2302</td>
<td>Differential Equations</td>
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<tr>
<td>STA 3032</td>
<td>Prob &amp; Stats for Engineers</td>
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<tr>
<td>STA 2023</td>
<td>Statistical Methods I</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

## 4. Advanced Core Requirements (54 hrs)

### Select one course
- MHP 3302 | Logic and Proof in Mathematics | 3 hrs |
- COT 3100C | Intro to Discrete Structures | 3 hrs |

### Select one course
- MAP 4133 | Mathematical Modeling | 3 hrs |
- EML 3034 | Modeling Meth in Mech. & Aero Eng | 3 hrs |
- PHZ 3151 | Computer Methods in Physics | 3 hrs |
- MAP 4353 | Vector & Tensor Analysis | 3 hrs |
- MAP 4307 | Appl of Complex Variables | 3 hrs |
- MAP 4363 | Appl Boundary Value Prob I | 3 hrs |
- MAP 4364 | Appl Boundary Value Prob II | 3 hrs |
- MAA 4236 | Advanced Calculus I | 4 hrs |
- EGN 3921 | Engineering Analysis - Dynamics | 3 hrs |
- EGN 3420 | Engineering Analysis | 3 hrs |
- COP 4506 | Numerical Calculus | 3 hrs |
- MAS 3106 | Linear Algebra | 3 hrs |

## 5. Restricted Electives (9 hrs)

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<td>CHM 2046</td>
<td>Chemistry Fundamentals II</td>
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<tr>
<td>ESI 4312</td>
<td>Operations Research</td>
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<tr>
<td>EGM 3601</td>
<td>Solid Mechanics</td>
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<tr>
<td>EML 3262C</td>
<td>Kinematics and Mechanisms</td>
<td>3 hrs</td>
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<tr>
<td>EAS 4101</td>
<td>Aerodynamics I</td>
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<tr>
<td>EGM 3601</td>
<td>Solid Mechanics</td>
<td>3 hrs</td>
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<tr>
<td>EEL 3342C</td>
<td>Intro. to Digital Circuits and Systems</td>
<td>3 hrs</td>
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<td>EEL 3301C</td>
<td>Intro. to Computer Engineering</td>
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<td>EEL 3657</td>
<td>Linear Control Systems</td>
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<td>EEL 4142</td>
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<tr>
<td>EML 4312C</td>
<td>Feedback Control</td>
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<tr>
<td>EEL 3262C</td>
<td>Kinematics and Mechanisms</td>
<td>3 hrs</td>
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<tr>
<td>EAS 4200</td>
<td>Flight Structures</td>
<td>3 hrs</td>
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<tr>
<td>EAS 4400</td>
<td>Spacecraft Attitude Dynamics</td>
<td>3 hrs</td>
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<tr>
<td>EAS 4505</td>
<td>Orbital Mechanics</td>
<td>3 hrs</td>
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<tr>
<td>EAS 4051</td>
<td>Flight Mechanics</td>
<td>3 hrs</td>
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<tr>
<td>EML 4703</td>
<td>Fluid Mechanics II</td>
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<tr>
<td>EMA 4223</td>
<td>Deformation and Fracture of Materials</td>
<td>3 hrs</td>
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<td>CWR 4203C</td>
<td>Hydraulics</td>
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<td>EEL 4101C</td>
<td>Hydrology</td>
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<td>ENV 4561</td>
<td>Environmental Eng Processes &amp; Design</td>
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<td>ESI 4234</td>
<td>Quality Engineering</td>
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<td>ESI 4523C</td>
<td>Systems Simulation</td>
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<td>EIN 4333C</td>
<td>Industrial Control Systems</td>
<td>3 hrs</td>
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<td>EEL 3340</td>
<td>Electromagnetic Fields</td>
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<td>EEL 3552C</td>
<td>Analog &amp; Digital Communication Fund</td>
<td>3 hrs</td>
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<td>EEL 4750</td>
<td>Digital Signal Processing Fund</td>
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<td>EEL 4767C</td>
<td>Computer System Design I</td>
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<td>EEL 4832</td>
<td>Eng. Applications of Computer Models</td>
<td>3 hrs</td>
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<tr>
<td>EEL 4851C</td>
<td>Engineering Data Structures</td>
<td>3 hrs</td>
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## 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.

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196 UNIVERSITY OF CENTRAL FLORIDA 2005-2006 Undergraduate Catalog
1. UCF General Education Program

(36 hrs)

(Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations

2. Common Program Prerequisites

(11 hrs)

COP 3223* Intro to Programming with C 3 hrs
MAC 2311 Calculus with Analytic Geo I GEP
MAC 2312 Calculus with Analytic Geo II 4 hrs
MAC 2313 Calculus with Analytic Geo III 4 hrs
BSC 2010C* Biology I 4 hrs
PHY 2048* & L Physics for Sci & Eng I & Lab 4 hrs
*See Transfer Notes for possible substitutes

3. Core requirements

(53 hrs)

PHY 2049 & L Physics for Sci & Eng II & Lab 4 hrs
One course selected from
a. ENC 3341 Writing for the Technical Professional
b. ENC 3310 Magazine Writing

4. Restricted Electives

(3 hrs)

Biological or physical sciences restricted 3 hrs
Select from PCB 3044, PCB 3063, PCB 4302C, PCB 4303C, CHM 2210, CHM 2046, PHY 3101, PHY 3323, PHY 4424

5. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each course required in the degree program (sections 2-4 above)
- Participate in an exit interview, 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
- 80 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces 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:

Graduation: None

8. Electives

(variable)

Students desiring a double major in Engineering or Physics and Mathematics must also complete all requirements of both majors. Students should select electives which satisfy both majors simultaneously when possible.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 80 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces 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.

MATHEMATICS - PURE TRACK (B.S.)

College of Arts and Sciences

Department of Mathematics, MAP 207 407-823-6284
http://math.ucf.edu

E-mail: math@mail.ucf.edu
H. Martin, MAP 231F, 407-823-5700,
E-mail: martin@math.ucf.edu

The Department of Mathematics offers special courses for students in the Honors Program. These courses are designated with an H. Also, students desiring a double major in Engineering or Physics and Mathematics must adopt the most current catalog.

1. UCF General Education Program

(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

2. Common Program Prerequisites

(11 hrs)

COP 3223* Intro to Programming with C 3 hrs
MAC 2311 Calculus with Analytic Geo I GEP
MAC 2312 Calculus with Analytic Geo II 4 hrs
MAC 2313 Calculus with Analytic Geo III 4 hrs
BSC 2010C* Biology I 4 hrs
PHY 2048* & L Physics for Sci & Eng I & Lab 4 hrs
*See Transfer Notes for possible substitutes

3. Core requirements

(53 hrs)

PHY 2049 & L Physics for Sci & Eng II & Lab 4 hrs
One course selected from
a. ENC 3341 Writing for the Technical Professional
b. ENC 3310 Magazine Writing

4. Restricted Electives

(3 hrs)

Biological or physical sciences restricted 3 hrs
Select from PCB 3044, PCB 3063, PCB 4302C, PCB 4303C, CHM 2210, CHM 2046, PHY 3101, PHY 3323, PHY 4424

5. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each course required in the degree program (sections 2-4 above)
- Participate in an exit interview, 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
- 80 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces 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:

Graduation: None

8. Electives

(variable)

Students desiring a double major in Engineering or Physics and Mathematics must also complete all requirements of both majors. Students should select electives which satisfy both majors simultaneously when possible.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 80 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces 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
Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics
Transfer Notes:

Graduation: None
UCF Degree Programs

- 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# 1D2-GEP 3 hrs
- ENC 1101 Composition I 3 hrs
- MAC 2311 Calc Anal Geo I 4 hrs
- STA 2023 Stat Methods I 3 hrs

Spring
- BSC 2010C Biology I 4 hrs
- ENC 1102 Composition II 3 hrs
- MAC 2312 Calc Anal Geo II 4 hrs
- MTH 3302 Logic and in Math 3 hrs

Sophomore Year
Fall
- COM 1000* req# 1A3-GEP 3 hrs
- PHY 2048 Phy for Eng Sci I 3 hrs
- PHY 2048 Phy L Eng Sci I 3 hrs
- MAC 2313 Calc Anal Geo III 4 hrs
- MAS 3105 Matrix and Lin Alg 4 hrs

Spring
- POS 2041* req# 1D1-GEP 3 hrs
- MAP 2302 Diff Equations 3 hrs
- MAP 2307 App complex var 3 hrs
- MTH 2363 Stat Theory I 3 hrs

Junior Year
Fall
- COP 3223 Intro to Prog C 3 hrs
- MAP 4363 Ap Bound Prob I 3 hrs
- MAS 4301 Algebraic Struct 3 hrs
- Elective* Check restrictions 3 hrs

Spring
- COP 3502C Computer Science I 3 hrs
- MAP 4307 App complex var 3 hrs
- Elective* Check restrictions 3 hrs
- Elective* Check restrictions 3 hrs

Senior Year
Fall
- AMH 2010* req# 1B1-GEP 3 hrs
- ENC 3241* req# 3-Core 3 hrs
- MAA 4226 Adv Calculus I 3 hrs
- MAA 4213 Comb Theory 3 hrs
- STA 4321 Stat Theory I 3 hrs

Spring
- ARH 2050* req# 1D1-GEP 3 hrs
- MAA 4227 Adv Calculus II 3 hrs
- MTG 4302 Topology 3 hrs
- STA 2023 Stat Methods II 3 hrs

Note: Some course waivers/substitutions may be possible. See catalog or program coordinator for additional information.

MATHEMATICS EDUCATION (B.S.)
College of Education
Department of Teaching and Learning Principles
ED 209; http://pegasus.cc.ucf.edu/~mathe
Program Coordinator: Dr. Michael Hynes
ED 123-K, 407-823-2005
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

1. UCF General Education Program (37 hrs)
   A. Communication Foundations (9 hrs)
   - ENC 1101 Composition I 3 hrs

3. EducationCore Requirements (15 hrs)
   - EDG 4323 Professional Teaching Practices 3 hrs
   - EDF 4503 Analysis of Critical Issues in Education 3 hrs
   - EDF 4514 Classroom Learning Principles 3 hrs
   - TSL 4080 Theory and Practice of Teaching ESL 3 hrs
   - LAE 4361 Literacy Strategies for Mid/High School 3 hrs

4. Internship I (ESE3940) (3 hrs)
   - Program Internship I 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 hours)
   NOTE: Some course waivers/substitutions may be possible. See advisor.
   - MAP 2302 Differential Equations 3 hrs

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At least 80% of all required mathematics courses and all methods courses must be completed before doing Internship II.

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.

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 the GEP and the Common Program Prerequisites before transferring.

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.

The UCF General Education Program (GEP) is described in the section, General Education Program, found elsewhere in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations 9 hrs
   1. Take ENC 1101
   2. Take ENC 1102
   3. Prefer SPC 1016

B. Cultural and Historical Foundations 9 hrs
   1. Take MAC 2311, Calculus with Analytic Geometry I, (4 hrs).

Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.

2. Take STA 3032 (3 hrs).

Note: Calculus II is the prerequisite for this course.

D. Social Foundations 6 hrs
   1. Take ECO 2013 or ECO 2023.

E. Science Foundations 7 hrs
   1. Take PHY 2048/48L.

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.

CHS 1440 Fundamentals of Chemistry for Eng (CHM 2045/45L will substitute) 4 hrs

MAC 2311 Calculus with Analytic Geometry I GEP

MAC 2312 Calculus with Analytic Geometry II 4 hrs

MAC 2313 Calculus with Analytic Geometry III 4 hrs

MAP 2302 Differential Equations 3 hrs

PHY 2048/48L Physics for Engineers & Scientists I GEP

PHY 2049/49L Physics for Engineers & Scientists II 4 hrs

ENC 1101 Composition I GEP

ENC 1102 Composition II GEP

Humanities Courses GEP
3. Courses Required for the Major (68 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the senior design courses listed in 4. below.

EGN 1000C Intro to the Engineering Profession 1 hr
EGN 1111C Engineering Computer Graphics 2 hrs
EGN 1007C Engineering Concepts & Methods 1 hr
EGN 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics 3 hrs
EGN 3493 Thermodynamics 3 hrs
EGN 3365 Structure & Properties of Materials 3 hrs
EGN 3373 Principles of Electrical Engining 3 hrs
STA 3032 Probability & Statistics for Engineers GEP

EML 3034 Modeling Methods in MMAE 3 hrs
EML 3303C Mechanical Enggmeqg Measurements 3 hrs
EML 4312C Feedback Control 3 hrs
EML 3500 Machine Design & Analysis 3 hrs
EGM 3601 Solid Mechanics 3 hrs
EML 3701 Fluid Mechanics I 3 hrs
EML 4142 Heat Transfer 3 hrs
EML 4220 Vibration Analysis 3 hrs
EML 4550C Introduction to CAD/CAM

Select one of the following three options for your senior year to complete your BSME. (16 hrs)

a. Energy Systems Option

EML 3301 Thermodynamics of Mechanical Sys 3 hrs
EML 4304C Thermo-fluids Measurements 2 hrs
EML 4703 Fluid Mechanics II 3 hrs
Restricted Mechanical Systems Elective 3 hrs
Approved Electives 8 hrs

b. Mechanical Systems Option

EMA 3012C Experimental Techniques in Mechanics & Materials 3 hrs
EML 3262C Kinematics of Mechanisms 3 hrs
EML 3804C Digital Control in Mechatronics 3 hrs
Restricted Energy Systems Elective 3 hrs
Approved Electives 7 hrs

c. Materials Option

EMA 3012C Experimental Techniques in Mechanics & Materials 3 hrs
EMA 4102 Thermodynamics and Kinetics of Materials 3 hrs
EMA 5124 Design and Selection of Materials 3 hrs
Restricted Materials Systems Elective 3 hrs
Approved Electives 7 hrs

4. Departmental Graduation Requirements (6 hrs)

- EML 4501C Engineering Design I 3 hrs
- 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 residency at UCF.
- 25% of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hours
Related Programs: Aerospace Engineering, Industrial Engineering.
Related Minors: Space Studies.

Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.
- EGN 1006C and EGN 107C are required courses for incoming freshmen only. The two credit hours for these courses may be substituted by an approved Mechanical Engineering technical elective for transfer students.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their Department to develop and maintain an appropriate plan of study.

Mechanical Engineering - 128 semester hours required

FIRST YEAR

Fall
EGN 1006C Intro to Eng Prof 15 hrs 1
*ENC 1101 English Comp I 3
*CHS 1440 Chin Eng or CHM 2045C wlab 4
*MAC 2311 Calc I 4
*MAC 2313 Calc III 4
*PHY 2049 Phys Eng I wlab 4

Spring
EGN 3310 Engr Anal-Statics 4
*PHY 2049 Phys Eng II 4
STA 3032 Prob & Stats/Engrs 3
EGN 3373 Prin of Elec Engr 3

SECOND YEAR

Fall
EGN 1111C Engr Comp Graph 15 hrs
*MAC 2302 Diff Equations 4
*MAC 2313 Calc III 4
*Social Foundations 3
*Cult & Hist Foundations 3

Spring
EGN 3310 Engr Anal-Statics 3
*PHY 2049 Phys Eng II wlab 3
EMA 3012C Exptl Tech in Mech & Matls 2
EMA 3101 Therm Mech Sys 3

THIRD YEAR

Fall
EGN 3601 Solid Mechanics 3
EML 3701 Fluid Mechanics I 3
EML 4312C Feedback Cont 3
EML 3303C Mech Engr Meas 3
*Science Foundations 3

Spring
EGN 3310 Engr Anal-Statics 3
*PHY 2049 Phys Eng II wlab 3
EMA 3012C Exptl Tech in Mech & Matls 2
EML 3303C Mach Engr Meas 3

FOURTH YEAR

I. ENERGY SYSTEMS OPTION

Fall
EML 3101 Therm Mech Sys 14 hrs
EML 4703 Fluid Mechanics II 14 hrs

Spring
EML 4502C Eng Design II or 3
EML 4521C Eng Design II 3

II. MECHANICAL SYSTEMS OPTION

Fall
EML 3262C Kinem Mechmnsms 14 hrs

Spring
EML 4502C Eng Design II or 3

III. MATERIALS OPTION

Fall
EMA 4413C Inter Design II 14 hrs

Spring
EMA 4413C Inter Design II 14 hrs

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UCF Degree Programs

MEDICAL LABORATORY SCIENCES (B.S)
Burnett College of Biomedical Sciences
HPA2 335, 407-823-5932
http://www.biomed.ucf.edu

Admission Requirements
Acceptance to the university does not necessarily constitute admission to the upper division medical laboratory science program.

Separate application to the limited access program should be made directly to the program in the Spring of the year admission is sought. Preference will be given to those who apply prior to March 1, but applications will be accepted until the class is filled.

UCF application must also be submitted by the program deadline. Acceptance to UCF is necessary before acceptance to the program can occur.

Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program.

This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.

All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of “C” (2.0)

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 prerequisites and major courses is required for admission to, continuation in, and graduation from the Medical Laboratory Sciences Program.

UCF Residency Requirement: 32 hours

The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours.

An FDLE background check and Board of Clinical Lab Personnel trainees license are required.

1. UCF General Education Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural Historical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select MAC 1105</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 2023</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ZOO 3733C Human Anatomy and Lab*</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHM 2210, 2211</td>
<td>8 hrs</td>
</tr>
<tr>
<td>MCB 3020C General Microbiology*</td>
<td>5 hrs</td>
</tr>
<tr>
<td>PCB 3703C Human Physiology and Lab*</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

* see Transfer Notes

2. Common Program Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2010C Biology I and lab</td>
<td>GEP</td>
</tr>
<tr>
<td>CHM 2045C, 2046 Chemistry Fundamentals I and Lab*</td>
<td>4 hrs</td>
</tr>
<tr>
<td>STA 2023 Statistical Methods I</td>
<td>GEP</td>
</tr>
<tr>
<td>ZDO 3733C Human Anatomy and Lab*</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHM 2210, 2211 Organic Chemistry I and Lab</td>
<td>8 hrs</td>
</tr>
<tr>
<td>MCB 3020C General Microbiology*</td>
<td>5 hrs</td>
</tr>
<tr>
<td>PCB 3703C Human Physiology and Lab*</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

* see Transfer Notes

3. Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLS 3220C Clinical Microscopy with lab</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MLS 4625 Advanced Clinical Chemistry I/II lab</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MLS 4630 Advanced Clinical Chemistry II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PCB 3233 Immunology with Lab</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MLS 4430C Clinical Parasitology</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MLS 3305 Hematology with Lab</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MLS 4505C Immunodiagnostic Technology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MLS 4910 Intro to Clinical Research</td>
<td>1 hr</td>
</tr>
<tr>
<td>MLS 4550 Clinical Immunohematology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MLS 4420C Clinical Mycology</td>
<td>1 hr</td>
</tr>
<tr>
<td>MLS 4460C Clinical Pathogenic Microbiology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MLS 4334 Hemostasis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MLS 4933 Medical Technology Seminar</td>
<td>1 hr</td>
</tr>
<tr>
<td>MLS 3705 Concepts in Education/Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MLS 4830C Intermediate and Practical Clinical Chem</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MLS 4831C Intermediate and Practical Immunohematology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MLS 4832C Intermediate and Practical Hematology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MLS 4833C Diagnostic Microbiology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CGS 2100C Computer Fundamentals for Business</td>
<td>3 hrs</td>
</tr>
<tr>
<td>BSC 3404 Quantitative Biological Methods</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

4. Upper Division Restricted Electives

5. Departmental Exit Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. A minimum 2.5 overall GPA is required for clinical assignment.</td>
<td>126 hrs</td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Students must earn a grade of “C” (2.0) or higher in required courses with a minimum 2.5 overall GPA for graduation.</td>
<td></td>
</tr>
</tbody>
</table>

6. Electives

7. Foreign Language Requirements

(0-8 hrs)
MODERN LANGUAGE COMBINATION (B.A.)

College of Arts and Sciences
Department of Modern Languages & Literatures, CNH 523
http://pegasus.cc.ucf.edu/~forlang
E-mail: modernlanguages@ucf.edu
P. Giordano, 407-823-2472

Admission Requirements: none
  ▪ Placement in language courses is based on one year of high school language being equivalent to one semester of college work. Students must consult an advisor.
  ▪ Native speakers or students who have received advanced education abroad must substitute select classes.

Degree Requirements
  ▪ Students who change degree programs and select this major must adopt the most current catalog.
  ▪ Language combinations may consist of French, German or Spanish as a first language and any of those three as a second language, as well as Italian.
  ▪ 24 credits in the first language and 15 credits in the second must be taken at the 3000 level or above.
  ▪ At least 33 hours must be taken in Modern Language courses taught in the target language.
  ▪ Students must earn at least a “C” (2.0) in each upper division foreign language course.
  ▪ Co-op or internship credit cannot be used in this major.
  ▪ Departmental Residency Requirement consists of at least 21 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and Literatures.
  ▪ Language credit by exam will not be given in courses lower in level than those in which study 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

(a) Communication Foundations
  ▪ 9 hrs
(b) Cultural and Historical Foundations
  ▪ 9 hrs
(c) Mathematical Foundations
  ▪ Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
  ▪ Prefer CGS 1060 Intro to Computer Sci or STA 1060C Statistics Using Excel 3 hrs

2. Common Program Prerequisites

(a) Core requirements-first language
  ▪ (French, German or Spanish)
    ▪ Composition (select one) 3 hrs
    ▪ SPN 3420* Spanish Composition
    ▪ FRE 4420* French Composition
    ▪ FRE 4422* Advanced French Composition
    ▪ GER 4420* German Composition
    (French, German or Spanish)
    ▪ Oral Communication (select one) 3 hrs
    ▪ SPN 3760* Adv Spanish Oral Communication
    ▪ FRE 3760* Adv French Oral Communication
    ▪ FRE 4421* Adv French Conversation
    ▪ GER 3760* Adv German Oral Communication
    (French, German or Spanish)
    ▪ *A native or near-native speaker must substitute an alternate upper division language course in consultation with a departmental advisor.
    ▪ Literature (select one sequence) 6 hrs
      ▪ SPW 3100 & 3101 Survey of Spanish Literature
      ▪ SPW 3130 & 3131 Survey of Latin American Literature
      ▪ FRW 3100 & 3101 Survey of French Literature
      ▪ GEW 3100 & 3101 Survey of German Literature
      ▪ Linguistics (select one) 3 hrs
        ▪ FRE 3780 French Phonetics and Diction
        ▪ FOL 3730 Romance Philology
        ▪ GER 3780 German Phonetics and Diction
        ▪ SPN 4801 Spanish Morphology
        ▪ SPN 4800 Spanish American Syntax
        ▪ SPN 4700 Spanish Phonetics
        ▪ Restricted Electives in the first language
        ▪ (chosen with departmental advisor) 9 hrs

3. Core requirements-second language

(a) Composition (select one) 3 hrs
    ▪ SPN 3420 , FRE 3420, GER 3420, ITA 3420
    ▪ Advanced Oral Communication (select one) 3 hrs
      ▪ SPN 3760, FRE 3760, GER 3760, or ITA 3760
    ▪ Restricted Electives in the second language
      ▪ (chosen with departmental advisor) 9 hrs

4. Core requirements-second language

(a) Composition (select one) 3 hrs
    ▪ SPN 3420, FRE 3420, GER 3420, ITA 3420
    ▪ Advanced Oral Communication (select one) 3 hrs
      ▪ SPN 3760, FRE 3760, GER 3760, or ITA 3760
    ▪ Restricted Electives in the second language
      ▪ (chosen with departmental advisor) 9 hrs

UF Degree Programs

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
  ▪ 25% of course work must be completed in residency at UCF
  ▪ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
  ▪ Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 126 hours

Related Programs: Molecular Biology and Microbiology, Biology, Chemistry

Related Minors: Biology, Chemistry

Transfer Notes:
Community College Equivalencies

General Microbiology/Lab (MBC 2033 or 2044C) 8 hrs

A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

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)

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

<table>
<thead>
<tr>
<th>Fall</th>
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<th>Spring</th>
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<tr>
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<tr>
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<tr>
<td>or PSY 2012</td>
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<td>STA 2023</td>
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Sophomore Year

<table>
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<tr>
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<td>CHM 2211</td>
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<td>MCB 3020C</td>
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<td>ZOO 3733C</td>
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<td>PCB 3703C</td>
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<td>or AMH 2020</td>
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<td>MUL 2010 or THE 2000</td>
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<tr>
<td>or REL 2300 or PHI 2010</td>
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Junior Year

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<tr>
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<td>3</td>
<td>MLS 3305L</td>
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<td>MLS 4625L</td>
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<td>MLS 4630</td>
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<td>PCB 3233L</td>
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<td>MLS 4460</td>
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Summer

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Senior Year

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<tr>
<td>MLS 4833C</td>
<td>4</td>
<td>MLS 3705</td>
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<tr>
<td>or</td>
<td></td>
<td>BSC 2304</td>
<td>4</td>
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</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 degree program requirements (four semesters or proficiency).

7. Electives (variable)
- Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in 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 and Iberian Area Studies, Russian Area 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 by the department chair for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year
Fall
BSC 1005* req# 1E2-GEP 3
ENC 1101 Composition I 3
AMH 2010* req# 1B1-GEP 3
MGF 1100* req# 1C1-GEP 3
SPN 1120* req# 2-CPP 4

Spring
ENC 1102 Composition II 3
MUL 2101* req# 1B2-GEP 3
POS 2041* req# 1D1-GEP 3
STA 1060C* req# 1C2-GEP 3
SPN 1121* req# 2-CPP 4

Sophomore Year
Fall
ANT 2000* req# 1D2-GEP 3
PSC 2111* req# 1E1-GEP 3
COM 1000* req# 1A3-GEP 3
SPN 2230* req# 2-CPP 3
FRE 1120* req# Lang/Elect 3

Spring
REL 2300* req# 1B3-GEP 3
SPN 2231* req# 2-CPP 3
Elective* Check restrictions 2
FRE 1121* req# Lang/Elect 4

Junior Year
Fall
SPN 3420* req# 3a-Core1 3
SPN 3760* req# 3b-Core1 3
SPN 3300* req# 3e-Core1 3
Elective* Check restrictions 3
FRE 2200* req# Lang/Elect 3

Spring
SPW 3100* req# 3c-Core1 3
SPW 4410* req# 3e-Core1 3
FRW 3100* req# 4c-Core2 3
Elective* Check restrictions 3

Senior Year
Fall
SPW 3780* req# 3d-Core1 3
SPW 4421* req# 3e-Core1 3
FRW 4421* req# 4c-Core2 3
Elective* Check restrictions 3

Spring

MOLECULAR BIOLOGY AND MICROBIOLOGY (B.S.)
Burnett College of Biomedical Sciences
HPA2 335, 407-823-5932
Molecular Biology and Microbiology Department
http://www.biomed.ucf.edu
Chair: P.E. Kolattukudy
Assistant Chair: Roseann White
UG Program Coordinator: Dorilyn Hitchcock

Admission Requirements
- none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- Grades below “C-” (1.75) in life science courses will not be accepted
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program (36 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 (22 hrs)
BSC 2010C Biology I GEP
BSC 2011C Biology II 4 hrs
MAC 2045C, 2046, 2046L General Chemistry I, II, + Lab GEP 4 hrs
RCH 2210, 2211L Organic Chemistry I, II, + Lab 10 hrs
MAC 2311 Calculus with Analytical Geometry I 4 hrs

3. Core Requirements (39 hrs)
Life Sciences
MCB 3030  General Microbiology 5 hrs
MCB 4414  Microbial Metabolism 3 hrs
PCB 4239, 4233L Molecular Immunology + Immunology Lab 4 hrs
PCB 3522, 4524  Molecular Biology I, II 6 hrs
BSC 3403C Quantitative Biological Methods 4 hrs
Chemistry
BCH 4053  Biochemistry I 3 hrs
Math** Calculus and Statistics
MAC 2233 or 2311 Applied Calculus I or Calculus I 3 hrs
STA 2023  Statistical Methods I 3 hrs

Physics**
PHY 2053C, 2054C College Physics I, II 8 hrs
or 2048, 2049G

UG Program Coordinator

4. Upper Division Restricted Electives (18 hrs)
(Six courses, of which at least two must be laboratory courses. No more than two may be MLS courses. Enrollment in some MLS courses is restricted. Check with advisor before enrolling. Either MCB 3203 or MLC 4460, but not both, may be counted. Only three hours of Honors thesis will count towards restrictive elective requirement.)

**BCH 4054  Biochemistry II 3 hrs
BCH 4108L  Biochemical Methods 2 hrs
MCB 3203, 3203L Pathogenic Microbiology + Lab 4 hrs
MCB 4114C  Microbial Systematics and Diagnostics 4 hrs
PCB 3063  Genetics 3 hrs
MCB 4312  Molecular Biotechnology 3 hrs
MCB 4603  Environmental Microbiology 3 hrs
MCB 4970H  Honors Thesis 3 hrs
MCB 5305  Infectious Process 3 hrs
MCB 5225  Molecular Biology of Disease 3 hrs
UCF Degree Programs

MCB 5932  Current Topics in Molecular Biology  3 hrs
MCB 5505  Molecular Virology  3 hrs
MCB 5554  Applied Microbiology  3 hrs
MCB 4503C  Virology  3 hrs
MLS 3220C  Clinical Microscopy with lab  3 hrs
*MLS 3305  Hematology  3 hrs
*MLS 4334  Hemostasis  3 hrs
*MLS 4403C  Clinical Parasitology  2 hrs
*MLS 4505C  Immunodiagnostics  3 hrs
MLS 4625  Advanced Clinical Chemistry I  3 hrs
MLS 4630  Advanced Clinical Chemistry II  3 hrs
*PCB 4503C  Vertebrate Histology  4 hrs
*PCB 4529  Experimental Molecular Biology  3 hrs
*PCB 5275  Signal Transduction Mechanisms  3 hrs
*PCB 5329  Immunopathology  4 hrs
*PCB 5329  Tumor Biology  3 hrs
*ZOO 3701C  Dissection Techniques  2 hrs
*ZOO 3733C  Human Anatomy  4 hrs
*ZOO 4603C  Vertebrate Embryology  5 hrs
*ZOO 3744  Neurobiology  3 hrs
*ZOO 4753C  Neurotransmission  2 hrs
ZOO 5745C  Essentials of Neuroanatomy  4 hrs
ZOO 4XXX  Clinical Neuroanatomy and Neuroscience  4 hrs

* Recommended for Preprofessional students

** Those students interested in pursuing a professional or professional education are strongly advised to select the following courses. Physics for Scientists and Engineers I & II (PHY 2048, 2049, 2048L, 2049L); Calculus I & II (MAC 2233, 2233); Calculus II (MAC 2233) or with Analytic Geometry I & II (MAC 2311, 2312).

5. Departmental Exit Requirements (81-91 hrs)
To be eligible for a major in Molecular Biology and Microbiology:
- A student must complete all coursework in the baccalaureate curriculum as shown, and earn a GPA of at least 2.0 for all coursework in the Core and Restricted Electives
- Independent study, directed research, or similar credit may not be used as a Restricted Elective
- A minimum of 20 hours must be taken at UCF in the department of the major
- Students will be required to take a comprehensive test during their last semester

6. Electives (variable)
Students are encouraged to participate in undergraduate research if interested in pursuing graduate or professional education.

7. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours
Related Programs: Biology, Chemistry, Medical Lab Science
Related Minors: Biology, Chemistry
Transfer Notes:
Students who begin a two semester course sequence (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 THC
- Fulfill University requirements for Honors in the Major and maintain a 3.2 UCF GPA; 3.5 in the major; 3.2 cumulative average for graduated upper division courses regardless of the institution
- Complete BSC 3404H “Quantitative Biological Methods” with a grade of B or better (4 credits)
- Complete MCB 4970H “Honors Thesis” with a grade of B or better and successfully complete the oral defense of the Honors Thesis (3 credits)

Tentative Course Schedule for Entering Freshmen

Freshman Year
Fall 13/14 hrs  Spring 17 hrs
ENC 1101  3  ENC 1102  3
PSY 2012 or SYG 2000  3  Elective  3
or ANT 2000  3  CHM 2046  3
CHM 2045C  4  CHM 2046L  1
MAC 1105  3  MAC 1114  3
SLS 2311 (Preprofessional)  1  BSC 2010C  4
Sophomore Year
Fall 14/15 hrs  Spring 15 hrs
CMH 2210  3  CMH 2211L  3
MCB3200C  5  CHM 2211L  2
MAC 2311L or MAC 2253  4/3  STAT 2023  3
or AMH 2000 or AMH 2010  3  BSC 3403C  4
or WOH 2012 or HUM 2111  3  EUIH 2001 or AMH 2020  3
or HUM 2230 or WOH 2022  3
Plan your required 9 summer hours into your course of study

Junior Year
Fall 17 hrs  Spring 14/15 hrs
PCB 3522  3  PCB 4523  3
BCH 4053  3  PCB 4239 + PCB 3233L  4
PHY 2045C or PHY 2045*  4  PHY 2045C*  4
or 2048L  4  or PHY 2049, 2049L
BSC 2011C  4  Restricted Elective  3/4
ECO 2013 or POS 2014  3
HUM 2211  3  *Students electing to enroll in the PHY2048/2049 sequence must plan to accomodate MAC 2311/2312 as prerequisites.
Senior Year
Fall 15/17 hrs  Spring 12/15 hrs
MCB 4414  3  Restricted Elective  3/4
Restricted Elective  3/4  Restricted Elective  3/4
CGS 1060C  3  Restricted Elective  3/4
Restricted Elective  3/4  or SPC 1016  3
HUM 2011  3  or SPC 1016  3
EUIH 2001 or AMH 2010  3
Arts from Cultural and Historical Foundations Group  3  *recommend SPC 1016

MOTION PICTURE TECHNOLOGY
(See Film)

MUSIC (B.A.)
College of Arts and Sciences
Department of Music, CNH 205A
http://www.cas.ucf.edu/music/
E-mail: music@mail.ucf.edu
Eugene Montague, E-mail: montague@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
### 1. UCF General Education Program (36 hrs)

**A. Communication Foundations**
- **MUT 1111**: Music Theory IA (2 hrs)

**B. Cultural and Historical Foundations**
- **MUT 1112**: Music Theory IB (2 hrs)
- **MUT 1221**: Ear Training & Sight Singing IA (1 hr)
- **MUT 1222**: Ear Training & Sight Singing IB (1 hr)
- **MUT 2116**: Music Theory IIA (2 hrs)
- **MUT 2121**: Ear Training & Sight Singing IIA (1 hr)
- **MUT 2122**: Ear Training & Sight Singing IIB (1 hr)

**C. Mathematical Foundations**
- **MUT 1111**: Music Theory IA (2 hrs)

**D. Social Foundations**
- **MUT 2116**: Music Theory IIA (2 hrs)

**E. Science Foundations**
- **MUT 2226**: Ear Training & Sight Singing IIB (1 hr)

### 2. Common Program Prerequisites (20-24 hrs)

- **MUS 1010**: Music Forum (4 semesters) (0 hrs)
- **MUS 3571**: 20th Century Musical Analysis (3 hrs)
- **MUS XXXX**: Secondary Performance (2 hrs)
- **MUT 2116**: Music Theory IIA (2 hrs)

### 3. Core Requirements (6 hrs)

- **MUS 1010**: Music Forum (4 semesters) (0 hrs)
- **MUS 3571**: 20th Century Musical Analysis (3 hrs)
- **MUS XXXX**: Secondary Performance (2 hrs)
- **MUT 1111**: Music Theory IA (2 hrs)

### 4. Restricted Electives-Music (12-16 hrs)

- **MUS 1010**: Music Forum (4 semesters) (0 hrs)
- **MUS 3571**: 20th Century Musical Analysis (3 hrs)
- **MUS XXXX**: Secondary Performance (2 hrs)
- **MUT 1111**: Music Theory IA (2 hrs)

### 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, Foreign 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 hour 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)

### 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 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.

### 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**: 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 1211**, **MUT 1221**: May use MUT 1221, MUT 1222, or MUT 1261, MUT 1262 or MUT 1271, MUT 1272.
- **MUT 1211**, **MUT 1217**: May use MUT 2126, MUT 2127. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
- **MUT 2246**, **MUT 2247**: May use MUT 2226, MUT 2227, or MUT 2266, MUT 2267, or MUT 2276, MUT 2277.
- **MVK 1111**, **MVK 2121**: May use MVK 1112, MVK 2122 or MVK 1211, MVK 2221

**Suggested Plan of Study**

One of numerous possible plans of study. See program description for all requirements. Consult a departmental advisor for alternate, new or more appropriate selections.

**Freshman Year**

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<th>Spring</th>
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<td>ENC 1102 Composition II</td>
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<td>HUM 2220* req# 1B2-GEP</td>
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<td>MGF 1106* req# 1C1-GEP</td>
<td>STA 1060C* req# 1C2-GEP</td>
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<td>MUN 3143* req# 2-CPP</td>
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<tr>
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<td>MUS 1010 Music Forum</td>
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**Sophomore Year**

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**Junior Year**

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**Senior Year**

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<td>SPC 1600* req# 1A4-GEP</td>
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<td>MUS 4212 History and Lit II</td>
</tr>
<tr>
<td>MUS 3170* req# 4-ResElec</td>
<td>MUS 3171* req# 4-ResElec</td>
</tr>
</tbody>
</table>

### Related Minor Programs:

Music Education, Music (BM), Theatre, Musical Theatre

**Related Programs**:
- Music Education
- Music (BM)
- Theatre
- Musical Theatre
MUSIC EDUCATION (B.M.E.)
College of Arts and Sciences
Department of Music, CNH 205A
http://www.cas.ucf.edu/music/
E-mail: music@mail.ucf.edu

Admission Requirements - Music Education-Pending
- Audition. To be accepted into Music Education-Pending, a student must demonstrate advanced proficiency by performing compositions representing a variety of musical periods (baroque, classical, romantic, contemporary).
- Memorization is required for pianists and vocalists.
- Accompanists are provided by special request only.
- Each candidate must bring his/her own audition music.
- The department will only provide large instruments such as a tuba, string bass, or timpani for these auditions.
- The audition will serve as a placement exam for accepted candidates.
- Demonstrate professional, vocal, and aural skill proficiency in an interview with Music Education faculty.

Admission Requirements - Music Education
- Music Education (Professional Program) Students who wish to be accepted into the Music Education Professional Program must complete the following requirements:
  - Pass 3 out 5 comprehensive proficiency examinations
  - 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)
   - A. Communication Foundations (9 hrs)
     ENC 1101 Composition I 3 hrs
     ENC 1102 Composition II 3 hrs
     MCG 1600 Fundamentals of Oral Communication 3 hrs
   - B. Cultural-Historical Foundations (9 hrs)
     AMH 2010 U.S. History 1492-1877 3 hrs
     AMH 2020 U.S. History 1877-Present 3 hrs
     MCG 4212 History and Literature II 3 hrs
   - C. Mathematical Foundations (6 hrs)
     MGF 1106 Finite Mathematics 3 hrs
     STA 1060C Basic Statistics Using Excel or STA 2014C Principles of Statistics 3 hrs
   - D. Social Foundations (6 hrs)
     POS 2041 American National Government 3 hrs
     PSY 2012 General Psychology 3 hrs
   - E. Science Foundations (6 hrs)
     PSC 1121 Physical Science 3 hrs
     Select one:
     ANT 2511 The Human Species or BSC 1005 Biological Principles 3 hrs
     Note: See laboratory component under Section 2.

2. 2005-2006 Undergraduate Catalog

2. 2005-2006 Undergraduate Catalog

3. Other Program Prerequisites (27 hrs)
   - MUN XXXX Major Ensembles (4 semesters) 4 hrs
   - MUS 1111 Music Theory IA 2 hrs
   - MUS 1112 Music Theory IB 2 hrs
   - MUS 2116 Music Theory IIA 2 hrs
   - MUS 2117 Music Theory IIB 2 hrs
   - MUS 2421 Ear Training and Sight Singing IA 1 hr
   - MUS 2424 Ear Training and Sight Singing IB 1 hr
   - MUS 2426 Ear Training and Sight Singing IIA 1 hr
   - MUS 2427 Ear Training and Sight Singing IIB 1 hr
   - MVK 1111 Class Piano I (or proficiency) 0-1 hr
   - MVK 2121 Class Piano II 1 hr
   - MVK 3131 Class Piano III 1 hr
   - MVK 4141 Class Piano IV 1 hr
   - MVX.XXX Performance (4 semesters) 8 hrs

3. Core Requirements (37 hrs)
   - A. Communications (6 hrs)
     MUS 1010 Music Forum (6 semesters) 0 hrs
     MV XXXX Performance (2 semesters) 2 hrs
     MUG 3104 Basic Conducting 2 hrs
     MUG 4212 History and Literature I 3 hrs
     MUG 4211 History and Literature II 3 hrs
     MUE 2440 Percussion Techniques 1 hr
     EDF 4214 Classroom Learning Priniciples 3 hrs
     EDF 4603 Analysis of Critical Issues in Education 3 hrs
     EDG 3202 Professional Teaching Practices 3 hrs
     ESL 4080 Teaching LEP Children 3 hrs
     RED 4043 Teaching Reading in the Content Area 3 hrs
     ESE 3940 Internship I - Secondary 3 hrs
     MUE 4311 Elementary School Music Methods 2 hrs
     MUE 4330 Secondary School Music Methods 2 hrs
Internship II: Students are expected to provide their own transportation to assigned locations.

Components of the experience include directed observation, collaborative planning, guided participation, and collaborative evaluation. Students are expected to be in public schools on a regular basis. Public School Partnerships are expected to observe, assist, and teach in a variety of settings (e.g., urban, suburban, general, choral, instrumental) before taking Internship I.

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. During the semester, students spend two full days per week 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.

Graduation: None

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits admitted

11. Total Semester Hours Required 134 hours

Related Programs: Music, Music (BFA), Theatre
Related Minors: Music, Theatre

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- Students transferring to UCF must pass the Music Education Proficiency in order to be accepted as a Music Education major
- Students transferring from a Florida Public Community College are cautioned to pay careful attention to the General Education and Common Program Prerequisites sections because the revi-
sion 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
- 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 1217, 1217, 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
- MKV 1111, 2121*: May use 1112, 2122 or MKV 1211, 2221

Note: Education majors are required to take six hours (in addition to EDG 2701) that have an international or diversity focus. While native UCF students complete this requirement as part of the GEP, transfer students must take appropriate courses that have been so designat-ed by their previous institution.

Note: Students must take a Natural Science class with the lab and should select a course that fulfills the GEP requirement.

MUSIC PERFORMANCE (B.M.)
College of Arts and Sciences
Department of Music, CNH 205
http://www.cas.ucf.edu/music/
E-Mail: music@mail.ucf.edu
John Almeida, E-mail: arsantanquixia@alo.com; 407-823-2510
George Weremchuk, E-mail: gweremch@mail.ucf.edu
407-823-5261; Fax 407-823-3378
Audition Requirements for Admission
- Each student must audition and demonstrate advanced proficiency by performing compositions representing a variety of musical periods
- Memorization is required for pianists and vocalists
- Accompanists are provided by special request only
- Each candidate must bring his/her own audition music
- The department will only provide large instruments such as a tuba, string bass, or timpani for these auditions
- The audition will serve as a placement examination for accepted candidates
- In addition, composition students must submit a portfolio of compositions representing works in small and/or large forms
- The audition and examination scores will serve as a placement examination for accepted candidates

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- At least 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
(see General Education program for detailed information)
A. Communication Foundations
Select SPC 1800 9 hrs
B. Cultural and Historical Foundations
Select one course from 1.B.1 list
Select MUH 4212 History and Literature II 3 hrs
1.B.1. 3 hrs

2. Common Program Prerequisites (24 hrs)
MUT 1111* Music Theory IA 2 hrs
MUT 1112* Music Theory IB 2 hrs
MUT 1241* Ear Training & Sight Singing IA 1 hr
MUT 1242* Ear Training & Sight Singing IB 1 hr
MUT 2116* Music Theory IIA 2 hrs
MUT 2117* Music Theory IIB 2 hrs
MUT 2246* Ear Training & Sight Singing IIA 1 hr
MUT 2247* Ear Training & Sight Singing IIB 1 hr
MUN XXX* Major Ensemble (four semesters) 4 hrs
(MUSIC students take MUN 3453, guitar students take MUN 3483)
MVB/MVK/MVP/ MMV/MVM/MW Performance or composition (four including two semesters of Level IV) 8 hrs
MVK 1111-2121* Class Piano I-II (or proficiency) 0-2 hrs
*See Transfer Notes for possible substitutes

3. Core Requirements (18 hrs)
MVK 3131 Class Piano III (or proficiency) 0-1 hr
MVK 4141 Class Piano IV (or proficiency) 0-1 hr
MUT 22010 Music Forum (eight semesters) 0 hrs
MUT 3571 20th Century Musical Analysis 3 hrs
MVB/MVK/MVP/ MMV/MVM/MW Performance or composition (four including two semesters of Level IV) 8 hrs
MUN XXX* Major Ensembles 2 hrs
(MUSIC students take MUN 3453, guitar students take MUN 3483)
MUG 3104 Basic Conducting 2 hrs
MUH 4211 History & Literature I 3 hrs
MUH 4212 History & Literature II GEP

4. Specialty Requirements: (24 hrs)

Piano
- MUL 3400 Piano Literature I 2 hrs
- MUL 3401 Piano Literature II 2 hrs
- MKV 4640 Piano Pedagogy I 1 hr
- MKV 4641 Piano Pedagogy II 1 hr
- Ensembles
  - Major Not required 0 hrs
  - Minor-MUN 3453 Piano Ensemble 2 hrs
  - Restricted Electives 10 hrs

Guitar
- MUL 3432 String Literature 2 hrs
- MVS 4640 String Pedagogy 2 hrs
- Ensembles
  - Major Not required 0 hrs
  - Minor-MUN 3483 String Ensemble 2 hrs
  - Restricted Electives 18 hrs

Voice
- FRE 1005 French Diction 1 hr
- GER 1005 German Diction 1 hr
- ITA 1005 Italian Diction 1 hr
- MVV 4641 Voice Pedagogy I 1 hr
- MVV 4641 Voice Pedagogy II 1 hr
- MUL 3603 Amer./English Song Literature 1 hr
- MUL 3604 German Song Literature 1 hr
- MUL 3605 French Song Literature 1 hr
- Ensembles
  - Major-MUN 3331 University Chorus 2 hrs
  - Minor-MUN XXX 4 hrs
  - Restricted Electives 10 hrs

Woodwinds
- MUN XXX* Major Ensemble 2 hrs
- MUN XXX* Minor Ensemble 4 hrs
- MUL 3441 Woodwind Literature 2 hrs
- MUL 3630 Woodwind Pedagogy 2 hrs
- Restricted Electives 14 hrs

Brass
- MUN XXX* Major Ensemble 2 hrs
- MUN XXX* Minor Ensemble 4 hrs
- MUL 3442 Brass Literature 2 hrs
- MVB 4640 Brass Pedagogy 2 hrs
- Restricted Electives 14 hrs

Percussion
- MUN XXX* Major Ensemble 2 hrs
- MUN XXX* Minor Ensemble 4 hrs
UCF Degree Programs

MUL 3463 | Percussion Literature | 2 hrs
MVP 3630 | Percussion Pedagogy | 2 hrs
Restricted Electives | 14 hrs

Strings
MUN XXXX | Major Ensemble | 2 hrs
MUN XXXX | Minor Ensemble | 4 hrs
MUL 3432 | Strings Literature | 2 hrs
MUS 4640 | Strings Pedagogy | 2 hrs
Restricted Electives | 14 hrs

Composition
MUT 3571 | Counterpoint | 3 hrs
MUT 5381 | Arranging and Composing Music | 3 hrs
MUG 3302 | Instrumental Conducting & Materials | 3 hrs
MUC 3311 | MIDI Sequencing I | 3 hrs
MUC 4441 | MIDI Sequencing II | 3 hrs
MUS 4347C | Digital Notation | 3 hrs
MUT 3170 | Jazz Theory I | 2 hrs
Ensembles
Major | 4 hrs
Restricted Electives | 0 hrs

5. Restricted Electives  (See above)
- Any secondary performance course not in area of major instrument or
- Any MUC, MUE, MUG, 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.

Recitals
- Bachelor of Music students must complete their piano proficiency and all but one comprehensive examination before auditioning for their senior recital or preparing for their senior composition recital.
- Each student must perform two faculty-approved public recitals: a junior recital of 30 minutes length and a senior recital of 45 minutes length (30 minutes for Piano Pedagogy students).
- Composition majors must present original musical compositions for their senior recital or preparing for their senior composition recital.

7. Departmental Exit Requirements
- Earn a grade of “C” (2.0) or better in each Music course.
- Computer Competency met by CGS 1060C, or departmental examination.

8. Foreign Language Requirements  (0-8 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.
- MVP 3630*: May use MVP 3630, 3631, or MVP 3632, 3633.

NURSING (B.S.N.)
A. BASIC PROGRAM
(For individuals who are not Registered Nurses)
College of Health and Public Affairs
HPA1 220, 407-823-2744
http://www.cohpa.ucf.edu/nursing/
Director: Jean Leuner
Undergraduate Coordinator: Patricia Leli
E-mail: ucnurse@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 of the prior year for January admission on the Brevard 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.
- Two 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).
UCF Degree Programs

students during their sophomore year and to students in the Military Enlisted Commissioning Program (MECUP). For specific information about early acceptance, contact the School of Nursing.

Graduates are eligible to take the licensing examination for registered nurses (NCLEX). The program is accredited by the National League for Nursing, Commission on Collegiate Nursing Education and approved by the Florida State Board of Nursing.

Degree Requirements

■ Students who change degree programs and select this major must adopt the most current catalog
■ Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education requirements and the Common Program Prerequisites
■ Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
■ The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities, and should be completed in the first 60 hours
■ A minimum overall GPA of 2.5 and a minimum 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 the School of Nursing office.

1. UCF General Education Program (36 hrs)

A. Communication Foundations
   Communication Foundations 9 hrs
B. Cultural Historical Foundations
   Cultural Historical Foundations 9 hrs
C. Mathematical Foundations
   Mathematical Foundations 6 hrs
   MAC 1105
   Select STA 2014
D. Social Foundations
   Social Foundations 6 hrs
   Select both SYG 2000 and PSY 2012*
   Select ECO 2013 or ECO 2023 or POS 2041
E. Science Foundations:** 6 hrs
   Select BSC 2093 or Select CHM 1032 (and lab)

* One of these courses is required to meet General Education requirements, but both are required program prerequisites.
** Science Foundation is 6 credit hours for General Education Program. However the nursing program prerequisite requires 4 CHM credits. To earn this, the student must also take the CHM 1032 lab. This BSC course is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

2. Common Program Prerequisites (22 hrs)

   PSY 2012 General Psychology** GEP
   SYG 2000 Sociology** 3 hrs
   MCB 2004C Health Microbiology 4 hrs
   CHM 1032/L General Chemistry and lab** GEP
   ZOO 3733C Human Anatomy* 4 hrs
   PCB 3103C Human Physiology* 4 hrs
   STA 2014C or any Principles of Statistics** GEP
   SOW 3104 Assessing Human Development or
   DEP 2004 Developmental Psychology 3 hrs
   HUN 3011 Human Nutrition 3 hrs

* May take Anatomy and Physiology sequence of six-eight total credits.
** Also meets General Education Requirements. The first semester of a two semester general chemistry course does not meet requirement.

3. Core Requirements (63 hrs)

   NUR 3028L Therapeutic Interv. for Health Prof. 1 hr
   NUR 3065 Health Assessment 3 hrs
   NUR 3165 Nursing Research 3 hrs
   NUR 3225 Promoting Physical & Mental Health 5 hrs
   NUR 3285L Clin Pract in Profm Phys/Mental Health 4 hrs
   NUR 3616 Promoting Healthy Families 3 hrs
   NUR 3616L Clinical Pract in Promot Healthy Fam 3 hrs
   NUR 3617 Promoting Healthy Communities 3 hrs
   NUR 3825 Role of the Professional Nurse 2 hrs
   NUR 3128 Pathophysiology & Pharmacology 5 hrs
   NUR 4525 Nursing Intervention in Mental Illness 2 hrs
   NUR 4525L Clinical Practice w/ Mentally Ill Client 1 hr
   NUR 4636 Community as the Continuum of Care 3 hrs
   NUR 4638L Clinical Pract in Comm.-Orin Ntrg 2 hrs
   NUR 4745N Nursing Care of Clients w/ Acute Ill. 4 hrs
   NUR 4745G Clinical Practice in Acute Illness 4 hrs
   NUR 4827 Leadership & Management Principles 3 hrs

   *NUR 4945L Directed Nursing Practice 4 hrs
   NUR 4835 Role Transition 2 hrs
   NUR 4837 Health Care Issues, Policy, & Econ 3 hrs
   NUR 4900X Nursing Elective 3 hrs

Any variation from the above must be approved by the School of Nursing.

4. Upper Division Restricted Electives (3 hrs)

   Nursing Elective: Any School of Nursing Elective approved by advisor
   *Some NUR 4945L placements require an elective to be taken concurrently.

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.

Graduation: none

8. University Minimum Exit Requirements

■ A 2.0 UCF GPA
■ 60 semester hours earned after CLEP awarded
■ 48 semester hours of upper division credit completed
■ 30 of the last 36 hours of course work must be completed in residency at UCF
■ 25% of course work must be completed in residency at UCF
■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
■ Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 121 hours

Related Programs: Health Services Administration, Social Work, all health programs

Related Minors: Aging Studies Certificate, Psychology, Health Sciences, Social Work Administration

Transfer Notes: Examples of Community College Equivalent Courses - Prerequisites

   General Psychology (PSY X012) or any General Psychology course 3 hrs
   General Sociology (SYG X012) or any Intro to Sociology course 3 hrs
   Statistics (STA 2014C or 2023) or any Statistics course 3 hrs
   General Chemistry (CHM 1032 or any other comprehensive chemistry course w/lab)* 4 hrs
   General Microbiology (MCB 3020C or MCB X010C) w/lab 4 hrs
   Developmental Psychology (DEP 2004) or any Human Growth & Development Across Life Span course 3 hrs
   Human Nutrition with therapeutic nutrition focus 3 hrs
   *The first semester of a two semester general chemistry course does not meet requirement.

Note: A grade of “C” (2.0) or better is required in all prerequisite courses.

Honors

Honors Option Requires:
■ Completion of a three credit directed readings course
■ Completion of a three credit thesis course
■ Open to students with a minimum 3.5 GPA in Nursing
■ Minimum cumulative UCF 3.2 GPA
■ Completion of 60 semester hours of college credit, including 12 graded upper division hours at UCF

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
**Some Directed Nursing Practice (NUR 4945L) placements require an elective as a
Other:
NUR 4827 3 **NUR 4945L 4
NUR 4525L 1 NUR 4837 3
NUR 4745 4 NUR 4835 2
Fall                                            14 hrs Spring                                  14 hrs
Senior Year
Summer A 6 hrs
NUR 3616 3
NUR 3616L 3
Junior Year
Fall 15 hrs Spring 14 hrs
NUR 3825 2 NUR 3128 5
NUR 3065 3 NUR 3235 5
NUR 3026L 1 NUR 3235L 4
NUR 3617 3 3
NUR 3616 3
NUR 3616L 3
Fall 14 hrs Spring 14 hrs
NUR 4745 4 NUR 4835 2
NUR 4745L 4 NUR 4636 2
NUR 4525 2 NUR 4636L 2
NUR 4525L 1 NUR 4837 3
NUR 4827 3 **NUR 4945L 4
Other:
* SPC 1600 required
**Some Directed Nursing Practice (NUR 4945L) placements require an elective as a concurrent course.
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, 407-823-2744
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 School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors.
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities.
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the Nursing major are required for continuation in and graduation from the Nursing Program.
- UCF Residency Requirement: 30 hours
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
   B. Cultural Historical Foundations
   C. Mathematical Foundations
   D. Social Foundations
   E. Science Foundations
   F. University Minimum Exit Requirements
   G. Validation Credit

2. Common Program Prerequisites (21 hrs)
   PSY 2012 General Psychology**
   SYG 2000 Sociology**
   MCB 2004C Health Microbiology
   CHM 1032/L General Chemistry and lab**
   ZOO 3733C Human Anatomy*
   SYG 2000
   PSY 2012
   Select SYG 2000 or PSY 2012
   Select one: ECO 2013 or ECO 2023 or POS 2041
   B. RN TO BSN PROGRAM
   (Completion program for individuals who are licensed RN’s)

3. Core Requirements (55 hrs)
   NUR 3065 Health Assessment
   NUR 3165 Nursing Research/Critical Inquiry
   NUR 4636 Community as Continuum of Care
   NUR 4636L Clin Prac in Comm-Oriented Nursing
   NUR 4084 Transitional Concepts in Nursing II
   NUR 4837 Nursing Research/Critical Inquiry
   NUR 4945L Practicum & Role Development for RNs
   Validation Credit
   NUR 4827 3 **NUR 4945L 4
   Other:
   * SPC 1600 required
   **Some Directed Nursing Practice (NUR 4945L) placements require an elective as a concurrent course.

4. Upper Division Restricted Elective (3 hrs)
   NUR XXXX Any Nursing Elective

5. Departmental Exit Requirements
   Completion of all courses in major with a grade of “C” (2.0) or better
   - UCF GPA of 2.5 or above
   - School of Nursing GPA of 2.5 or above

6. Electives none

7. Foreign Language Requirements (0-8 hrs)
   Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

8. University Minimum Exit Requirements
   A. 2.0 UCF GPA
   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 res-
### UCF Degree Programs

- **idency at UCF**
  - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
  - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required**
- 120 hours

**Related Programs**: Health Services Administration, Social Work, All health programs

**Related Minors**: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

### Sample Plan of Study

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Semester II</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR3809</td>
<td>NUR 3165</td>
</tr>
<tr>
<td>3</td>
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<tr>
<td>NUR 3065</td>
<td>NUR 4827</td>
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<tr>
<td>NUR 3065L</td>
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<table>
<thead>
<tr>
<th>Semester III</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 4084</td>
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<tr>
<td>3</td>
</tr>
<tr>
<td>NUR XXXX (elective)</td>
</tr>
<tr>
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</table>

<table>
<thead>
<tr>
<th>Semester IV</th>
<th>Semester V</th>
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<tbody>
<tr>
<td>NUR 4636</td>
<td>NUR 4837</td>
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<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>NUR 4636L</td>
<td>NUR 4812C</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
</tr>
</tbody>
</table>

*Elective may be taken at any point.

**Progression requirements:**
- Prior to NUR 3805: RN status or eligible to take NCLEX.
- Prior to NUR 3165: Complete NUR 3805 and Statistics course with grade of “C” (2.0) or better.
- Prior to NUR 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 Courses offered in Orlando and at regional campuses of Daytona, Cocoa, and Leesburg.**

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/](http://www.cohpa.ucf.edu/nursing/)

### NURSING ACCELERATED SECOND DEGREE E. 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

**Director**: Jean Leuner

**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
- Two 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 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 2012</td>
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</tr>
<tr>
<td>SYG 2000</td>
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</tr>
<tr>
<td>MCB 2004C</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHM 1032/L</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ZOO 3733C</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PCB 3703C</td>
<td>4 hrs</td>
</tr>
<tr>
<td>STA 2014C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOW 3104</td>
<td>3 hrs</td>
</tr>
<tr>
<td>DEP 2004</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HUN 3011</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

* The first semester of a two semester general chemistry course does not meet requirement.
** May take Anatomy and Physiology sequence of six-eight total credits.

### 3. Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3026L</td>
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</tr>
<tr>
<td>NUR 3065</td>
<td>3 hrs</td>
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<tr>
<td>NUR 3167</td>
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<tr>
<td>NUR 3235</td>
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<tr>
<td>NUR 3235L</td>
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</tr>
<tr>
<td>NUR 3253</td>
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</tr>
<tr>
<td>NUR 3253L</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 3637</td>
<td>4 hrs</td>
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<tr>
<td>NUR 3637L</td>
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<tr>
<td>NUR 3639</td>
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<tr>
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<tr>
<td>NUR 4525L</td>
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<tr>
<td>NUR 4639</td>
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<td>NUR 4829</td>
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<tr>
<td>NUR 4945L</td>
<td>4 hrs</td>
</tr>
<tr>
<td>NUR 4945L</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

* 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 residence 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 X012) or any General Psychology course 3
General Sociology (SYG 2000) or any Intro to Sociology course 3
Statistics (STA 2014C or 2023) or any Statistics course 3
General Chemistry (CHM 1032 or any other comprehensive 4
chemistry course w/lab)*
Human Anatomy and Physiology I & II 6-8
General Microbiology (MCB 3020C) (MCB X010C) w/lab 4
or any Microbiology course w/lab
Developmental Psychology (DEP 2004) or any Human Growth & Development Across Life Span course 3
Human Nutrition with Therapeutic Nutrition course 3

* The first semester of a two semester general chemistry course does not meet requirement.

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
NUR 3625 2 1 5
NUR 3085 3 5
NUR 3020L 1 4
NUR 3637 5
NUR 3065 3
NUR 3235 5
NUR 3026L 1 4
NUR 3235L 4
Summer 11 hrs
NUR 4745 4
NUR 4745L 4
NUR 4525 2
NUR 4525L 1
NUR 3167 or 1
*NUR 3165 3

Spring 15 hrs
NUR 4745 4
NUR 4745L 4
NUR 4525 2
NUR 4525L 1
NUR 3167 or 1
*NUR 3165 3

Spring 11 hrs
NUR 4829 3
NUR 4639 2
NUR 4636L 2
NUR 4945L 4
NUR 4945 4
NUR 4829 3

Select from the following list:
- SPC 3513 Argumentation and Debate
- COM 3013 Communication and the Family
- COM 4014 Gender Issues in Communication
- COM 4461 Intercultural Communication
- COM 4462 Conflict Management
- COM 4941 Internship

5. External Restricted Electives (6 hrs)
6. School Exit Requirements
- Achieve a “C” (2.0) or better GPA in required UCF Communication courses.
- To avoid delaying graduation, you must request a review of requirements before registering for your last term.
- Computer Competency met by a Computer Science course or by departmental assessment.

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 advisors approval. May be taken outside 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 hours

Related Programs: Interpersonal Communication
Related Minors: Interpersonal Communication, Mass 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
EIH 2000* req# 1B1-GEP 3
Elective* Check restrictions 3

Sophomore Year
Fall: ANT 2000* req# 1D2-GEP 3
BSC 1005* req# 1E2-GEP 3
Elective* Check restrictions 3
Spring: ARH 2050* req# 1B3-GEP 3
MUL 2010* req# 1B2-GEP 3
Elective* Check restrictions 3

Junior Year
Fall: COM 3011C Com Rltn 3
COM 3311 Com Res Methods 3
ENC 3250 Prof Writing 3
Spring: COM 3110 Bus Prof Com 3
SPC 3425C Intrn Decis Mk 3
Elective* Check restrictions 3

Senior Year
Fall: COM 3120 Org Communication 3
COM 4462* req# 4-ResElec 3
HFT 3600* req# 5-Ext RE 3
Elective* Check restrictions 3
Spring: COM 4941* req# 4-ResElec 3
MHR 3023* req# 5-Ext RE 3
Elective* Check restrictions 3

PHILOSOPHY (B.A.)
College of Arts and Sciences
Philosophy Department, CNH 411
http://www.cas.ucf.edu/philosophy
E-mail: philosophy@ucf.edu
Don Jones, 407-823-2273; Fax: 407-823-6658

Admission Requirements none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each required course
- Co-op or internship credit cannot be used in this major without prior departmental approval
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations
Select HUM 2211 Humanistic Traditions I 3 hrs
Select HUM 2230 Humanistic Traditions II 3 hrs
Select PHI 2010 Intro to Philosophy 3 hrs
C. Mathematical Foundations
Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
Select STA 1060C Statistics Using Excel 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites none

3. Core requirements* (27 hrs)
a. Core
HUM 2211 Humanistic Traditions I GEP 3 hrs
HUM 2230 Humanistic Traditions II GEP 3 hrs
PHI 2010 Intro to Philosophy GEP 3 hrs
b. Philosophical Foundations:
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
PHI 3341 Philosophy of Law (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

4. Sub-disciplinary requirements (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

Don Jones, 407-823-2273; Fax: 407-823-6658
E-mail: philosophy@ucf.edu
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy
4. Upper Division Restricted Electives (6 hrs)
Select six hours of approved courses in Philosophy or related areas, subject to approval by Departmental advisor.

5. Honors in the Major
Students considering graduate school in philosophy are strongly encouraged to take Honors in the Major. Requirements are as follows:

Core Requirements (27 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:
PHI 3100 Ancient Philosophy
PHI 3200 Medieval Philosophy
PHI 3460 Modern Western Philosophy
PHI 3600 Contemporary Philosophy

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.
- 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 hours

Related Programs: Humanities, Humanities - 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:
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 2211 Hum Tradition I 3
MGF 1106* req# 1C1-GEP 3
PHI 2101 Intro to Phil 3
SPN 1120* req# Lang/Elect 4

Spring
ENC 1102 Composition II 3
HUM 2233 Hum Tradition II 3
STA 1060C* req# 1C2-GEP 3
PHI 2101* req# 3b-Boundn 3
SPN 1121* req# Lang/Elect 4

Sophomore Year
Fall
BSC 1005* req# 1E2-GEP 3
PSY 2012* req# 1D2-GEP 3
SPC 1600* req# 1A3-GEP 3
PHI 3670 Ethical Theory 3
PHI 4341* req# 3b-Foundn 3

Elective* Check restrictions 3

Spring
BSC 1006* req# 1E2-GEP 3
PSY 2012* req# 1D2-GEP 3
SPC 1600* req# 1A3-GEP 3
PHI 3670 Ethical Theory 3
Elective* Check restrictions 3

Junior Year
Fall
PH 3083 Res Meth in Phil 3
PHI 3700* req# 3c-Disc 3
Elective* Check restrictions 3
Elective* Check restrictions 3

Spring
PH 3083 Res Meth in Phil 3
PHI 3700* req# 3c-Disc 3
Elective* Check restrictions 3
Elective* Check restrictions 3

Senior Year
Fall
PHP 3786* req# 4-ResEle 3
Elective* Check restrictions 3
Elective* Check restrictions 3

Spring
PHP 3786* req# 4-ResEle 3
Elective* Check restrictions 3
Elective* Check restrictions 3

PHOTOGRAPHY (B.S.)
College of Arts and Sciences
E-mail: ls@mail.ucf.edu
Advisors: Karen Cox (UCF-Orlando), 407-823-0144; Steve Spencer (UCF-Daytona), 386-506-4093
Liberal Studies Advising Team, Elliot Vittes, 407-823-0144
The Photography B.S. program is a joint program between the University of Central Florida and Daytona Beach Community College.

Admission Requirements
Completion of an A.S. in Photography from Daytona Beach Community College or equivalent coursework.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students should consult with 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 course and maintain an overall GPA of at least 2.0
UCF Degree Programs

1. UCF General Education Program (36 hrs)
Students who have not satisfied General Education Requirements before transferring will complete the remaining courses at UCF. The specific courses will depend on the general education courses completed as part of the articulated A.S., and will come from the following areas:

A. Communication Foundations
   ENC 1101 Composition I AS
   ENC 1102 Composition II 3 hrs
   SPC 2600* Speech AS

B. Cultural and Historical Foundations
   A year sequence in AMH, EUH, HUM, or WOH 6 hrs
   ARH 2051 History and Criticism of Art II AS

C. Mathematical Foundations
   MAC 1104 College Algebra or
   MGF 2110 College Mathematics or
   MGF 2107 Mathematics for Liberal Arts AS

D. Social Foundations
   Political Science or Economics 3 hrs
   Psychology or Sociology AS

E. Science Foundation
   Physical Science 3 hrs
   Life Science 3 hrs

2. Common Program Prerequisites (0 hrs)
Subjects to change. Prerequisites have not been set by the state.

ARH 2051 History and Criticism of Art II AS
GRA 1741 Principles of Design and Color AS
GRA 1100 Computer Graphics Fundamentals AS
PGY 1403 Fundamentals of Photography AS
PGY 3610C Photojournalism I BS

3. AS Required Courses: (49 hrs)
(Completed as in the A.S. degree program in Photography, 2002-2003 catalog. Students graduating under different catalogs may substitute equivalent courses)

CGS 1570 Introduction to Computer Applications 1 hr
GRA 1741 Principles of Design and Color 3 hrs
GRA 1100 Computer Graphics Fundamentals 3 hrs
PGY 1115 Color Materials and Processes 7 hrs
PGY 1265 Advanced Processes and Techniques 4 hrs
PGY 1403 Fundamentals of Photography 4 hrs
PGY 1402 Photographic Materials and Processes 4 hrs
PGY 1806 Digital Imaging 4 hrs
PGY 2000 History and Aesthetics of Photography 3 hrs
PGY 2107 Large Format Photography 4 hrs
PGY 2215 Studio Lighting 4 hrs
PGY 2216 Location Photography 4 hrs
PGY 2655 Applied Photography 4 hrs

4. Upper Division Required Courses (39 hrs)

PGY 3xxx Contemporary Photography 3 hrs
ARH 3711 History of Photography II 3 hrs
CGS 3xxx Image, Culture, and Society 3 hrs
CRW 3xxx Creative Writing for Non-Majors 3 hrs
PGY 3xxx Digital Imagery for Photography 3 hrs
PGY 3610C Photojournalism II 3 hrs
PGY 4xxx Photography Workshop/Project 3 hrs
PGY 4xxx Advanced Illustrative Photography 3 hrs
PGY 4xxx Photography Thesis 3 hrs
PGY 3xxx The Professional Environment 3 hrs
PGY 3xxx Photographic Lighting Techniques 3 hrs
PGY 3xxx Photographic Exhibition and Display 3 hrs

5. Upper Division Restricted Electives (3 hrs)
Select one of the following courses.

PGY 3xxx Alternative Processes 3 hrs
PGY 3xxx Photography and Web Design 3 hrs
PGY 3xxx Videography 3 hrs
PLA 3xxx Law and the Visual Arts 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

2. Common Program Prerequisites (25 hrs)

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 42 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required 127 hours

Community College Transfer Notes

- Students transferring from any Florida public institution with an A.A. degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the area by the department. The student must provide all supporting information.

Acceptable substitutes for General Education and Common Program Prerequisites

- ARH 1000* May substitute ARH 2500 or ARH 2050
- GRA 1741* May substitute GRA 2111C
- GRA 1800* May substitute GRA 2140C

PHYSICAL EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles
ED 209
http://pegasus.cc.ucf.edu/~ucfphyed/

Program Coordinator: Dr. Patricia Higginbotham
ED 320-H, 407-823-2050
E-mail: higginbp@mail.ucf.edu

Admission Requirements:
- Complete the University General Education Requirements or its equivalent, (i.e. an AA degree from an approved Florida community college or state university)
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses

Degree Requirements:
- Due to recent changes in Florida teacher certification requirements for Physical Education, revisions to program requirements are expected. Students should check with a program advisor before registering for upper division (3/4/XXX) courses.

1. UCF General Education Program (37 hrs)
A. Communication Foundations
   ENC 1101 Composition I (9 hrs)
   ENC 1102 Composition II 3 hrs
   SPC 1600 Fundamentals of Oral Communication 3 hrs
B. Cultural-Historical Foundations
   AMH 2020 U.S. History 1877-Present 3 hrs
   AMH 2010 U.S. History 1492-1877 3 hrs
   PHI 2010 Introduction to Philosophy 3 hrs
C. Mathematical Foundations
   MGF 2106 College Algebra or
   MGF 2107 Mathematics for Liberal Arts AS
   STA 2014C Principles of Statistics 3 hrs
   STA 1060C Basic Statistics using MS Excel 3 hrs
   STA 2014C Basic Statistics using MS Excel or
   STA 2014C Principles of Statistics 3 hrs
D. Social Foundations
   POS 2041 American National Government 3 hrs
   PSY 2012 General Psychology 3 hrs
E. Science Foundations
   PSC 1211 Physical Science 3 hrs
   SPC 2010C Biology I 4 hrs

2. Common Program Prerequisites (25 hrs)

- 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)
Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices.

**8. Departmental Exit Requirements**
- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

**9. University Minimum Exit Requirements**
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**10. Total Semester Hours Required** 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.

**11. Certification and Endorsement**
*K-12 Certification (Required by Florida Department of Education) (6 hrs)*
- PET 3765 Coaching Theory 3 hrs
- PET 4550 Fitness Assessment and Exercise 3 hrs

*Coaching Endorsement (Optional) (6 hrs)*
- PET 3765 Coaching Theory 3 hrs
- Select one of the following courses: 3 hrs
  - PET 2624 Coaching Basketball
  - PEOD3324 Coaching Volleyball
  - PEO 3644 Coaching Football

**12. Recommended Sequence of Program Courses:**

**Freshman Year**

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<tr>
<td>Fall</td>
<td>EDG 4323 Professional Teaching Practices 3 hrs</td>
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<tr>
<td>Fall</td>
<td>EDF 4003 Analysis of Critical Issues in Education 3 hrs</td>
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<tr>
<td>Fall</td>
<td>EDF 4214 Classroom Learning Principles 3 hrs</td>
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<tr>
<td>Fall</td>
<td>TSL 4080 Thry &amp; Prac Teaching ESOL Students in Schools 3 hrs</td>
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<tr>
<td>Fall</td>
<td>RED 4043 Content Reading K-12 3 hrs</td>
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<td></td>
<td>PEO 3111 Team Sports or</td>
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<td></td>
<td>PEO 2011 Indiv. Sports and Leisure Activities</td>
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<td>Summer</td>
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<tr>
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<td>ZOO 3736C Human Anatomy with Lab 4 hrs</td>
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**Sophomore Year**

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<td>EDF 4003 Analysis of Critical Issues in Education 3 hrs</td>
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<td>EDF 4214 Classroom Learning Principles 3 hrs</td>
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<td>TSL 4080 Thry &amp; Prac Teaching ESOL Students in Schools 3 hrs</td>
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<tr>
<td>Fall</td>
<td>RED 4043 Content Reading K-12 3 hrs</td>
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<td>ZOO 3736C Human Anatomy with Lab 4 hrs</td>
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<td>EDF 4214 Classroom Learning Principles 3 hrs</td>
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<tr>
<td></td>
<td>DAE 3370 Dance &amp; Rhythmic 3 hrs</td>
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<td></td>
<td>EDG 4323 Coaching Theory 3 hrs</td>
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<td></td>
<td>PEO 3041 Adapted PE 3 hrs</td>
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<td>PEO 4823 Teaching Sports Skills 3 hrs</td>
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**Seniors Year**

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<td>DAE 3370 Dance &amp; Rhythmic 3 hrs</td>
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<tr>
<td></td>
<td>EDG 4323 Coaching Theory 3 hrs</td>
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<td></td>
<td>PEO 3041 Adapted PE 3 hrs</td>
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<tr>
<td></td>
<td>PEO 4823 Teaching Sports Skills 3 hrs</td>
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**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.)
Students who change degree programs and select this major

Degree Requirements

Admission Requirements: none

While the various tracks share a common core of courses, they also enable students to prepare specifically for certain career paths. Students should consult their faculty advisors when deciding between these tracks.

Admission Requirements: none

Degree Requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below "C" (2.0) in any required physics or mathematics courses are not acceptable; they must be repeated with a higher grade.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Physics.
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

   (Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36.)

   A. Communication Foundations
      - Select ENC 1101 English Composition I 3 hrs
      - Select ENC 1102 English Composition II 3 hrs
      - Prefer SPC 1016 Oral Comm for Tech Prof 3 hrs
   
   B. Cultural and Historical Foundations
      - Select MAC 2311 Calculus with Analy Geo I 4 hrs
      - Select COP 2223 Computer Programming 3 hrs
      - Select MAC 2311L Calculus with Analy Geo I Lab 3 hrs
   
   C. Mathematical Foundations
      - Select PHY 2048 & L Physics for Sci & Eng I 4 hrs
      - Select PHY 2048L Physics for Sci & Eng I Lab 4 hrs
      - Select a GEP course from Science Section 2 3 hrs

   2. Common Program Prerequisites (20 hrs)
      - CHM 204C Chem Fund I 4 hrs
      - CHM 204D & L Chem Fund II with lab 4 hrs
      - MAC 2311 Calculus with Analy Geo I GEP 4 hrs
      - MAC 2312 Calculus with Analy Geo II 4 hrs
      - MAC 2313 Calculus with Analy Geo III 4 hrs
      - PHY 2048 & L Physics Engr I & Lab GEP 4 hrs
      - PHY 2049 & L Physics Engr II & Lab 4 hrs
      - CHM 2341L Physical Chem Laboratory 2 hrs
      - Select one of the following:
         - PHY 4912 Directed Independent Research 3 hrs (should be done in the area of specialization)
      - Laboratory requirements:
         - PHY 3902L Intermediate Physics Lab 3 hrs
      - Select one of the following:
         - 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 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, Chemistry, Computer Science, or Engineering.

   4.2 Materials Physics Specialization (18 hrs)
      - Choose one lab from:
         - PHY 4803L Advanced Physics Lab 3 hrs
         - EEL 5305C 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
         - EEL 5352 Semiconductor Mat & Device Char 3 hrs
      - Directed Electives 6 hrs
      - Courses at a 3000 level or higher, approved by the Physics Department.
      - Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.

   4.3 Optics and Lasers Specialization (18 hrs)
      - PHY 4424L Optical Physics Laboratory 3 hrs
      - PHY 4424 Optical Physics 3 hrs
      - Choose six hours from:
         - EEL 4440 Optoengineering 3 hrs
         - PHY 4445 Lasers 3 hrs
         - OSE 514 Fund. of Optoelectronic Devices 3 hrs
      - Directed Electives 6 hrs
      - Courses at a 3000 level or higher, approved by the Physics Department.
      - Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.

   4.4 Computational Physics Specialization (18 hrs)
      - PHZ 3151 Computer Methods in Physics 3 hrs
      - COP 3502C Computer Science I 3 hrs
      - COP 3503C Computer Science II 3 hrs
      - COP 4500 Numerical Calculus 3 hrs
      - Directed Electives 6 hrs
      - Courses at a 3000 level or higher, approved by the Physics Department.
      - Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.

   4.5 Astronomy Specialization (18 hrs)
      - AST 2002 Introduction to Astronomy 3 hrs
      - AST 3722C Observational Astronomy 3 hrs
      - Choose two of the following:
         - AST 3110 Solar System Astronomy 3 hrs
         - AST 3211 Stellar Astrophysics 3 hrs
         - AST 3402 Galaxies and Cosmology 3 hrs
      - Directed Electives 6 hrs
      - Courses at a 3000 level or higher, approved by the Physics Department.
      - Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.

   5. Departmental Exit Requirements:

      - Students must have at least a 2.0 GPA in all courses counted toward the major.
      - Students will be required to take a nationally normed test in Physics during their last semester.
      - Students will have an exit interview in their last semester with a representative of the Physics Undergraduate Committee.
      - Computer Competency met by COP 3223 or a departmental exam

   6. Foreign Language Requirements (0-8 hrs)
      - Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
      - Graduation: None

   7. Electives (variable)

      - Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.
POLITICAL SCIENCE (B.A.)
College of Arts and Sciences
Political Science Department, CNH 415, 407-823-2608
http://pegasus.cc.ucf.edu/~politics
E-mail: politics@ucf.edu
R. Handberg, 407-823-2608

Admission Requirements
none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior departmental approval.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      Select ENC 1101, ENC 1102
      Select SPC 1600
   B. Cultural and Historical Foundations
      Prefer AMH 2010 US History: 1492-1877 and
      AMH 2020 US History: 1877-Present
      Select from GEP B.2 list
   C. Mathematical Foundations
      Select MGF 1106 Finite Mathematics
      (may substitute a higher level math)
      Select STA 2014C Principles of Statistics or
      STA 2000C Statistics Using Excel
   D. Social Foundations
      Select POS 2041 American National Government
      Select one of the three choices
      Select one of the three choices
   E. Science Foundations
      3 hrs

2. Common Program Prerequisites (3 hrs)
   POS 2041* American National Government
   POS 2042* Scope & Methods of Pol Sci
   *See Transfer Notes for possible substitutes

3. Core (0 hrs)
   POS 2041 American National Government
   POS 2042 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
   Two courses from area B
   Two courses from area C
   One additional course from any area
   15 hrs
   6 hrs
   6 hrs
   3 hrs

   Emphasis 2: International Relations-Comparative Politics
   Two courses from area A
   *Five courses from area B
   Two courses from area C
   One additional course from any area
   *No more than two of the following courses may be considered part of area B credit: INR 4401, INR 4402, INR 4404.
   6 hrs
   15 hrs
   6 hrs
   3 hrs

   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.

A. American Politics and Policy
   POS 3122 State Government & Public Policy
   POS 3173 Southern Politics
   POS 3182 Florida Politics
   POS 3233 Public Opinion
   POS 3235 Mass Media and Politics
   POS 3258 Politics in Film
   POS 3273 Voting and Elections
   POS 3413 The American Presidency
   POS 3424 Congress and the Legislative Process
   POS 3443 Political Parties and Processes
   POS 3463 Interest Groups
   POS 3627 Cultural Pluralism and the Law

Total Semester Hours Required 120 hours

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 be substituted by 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 alternatives 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

Fall
PHY 2048L Phy for Eng Sci II 1
PHY 2048 Phy for Eng Sci II 3
CHM 2046L Chemistry Fund L 1
MAC 2312 Calc Anal Geo II 4

Spring
ANT 2000* req# 1D2-GEP 3
ENC 1102 Composition II 3
PHY 2049 Phy for Eng Sci II 3
PHY 2049 Phy L Eng Sci I 1

Sophomore Year
Fall
COP 3223 Intro to Prog C 3
HUM 2211* req# 1B1-GEP 3
MAC 2313 Calc Anal Geo I 4
CHM 2045C Chemistry Fund I 4

Spring
MUL 2010* req# 1B2-GEP 3
PHY 3048 Phy Thermodynamics 1
PHY 3048L Phy L Eng Sci I 1
CHM 2046 Chemistry Fund II 3
CHM 2046L Chemistry Fund L 1
MAC 2312 Calc Anal Geo II 4

Junior Year
Fall
APH 2090* req# 1B3-GEP 3
PHY 3220 Mechanics I 3
PHY 3323 Elect Mag I 3
PHY 4604 Wave Mechanics I 3
COP 3902C* req# 4-Spec 3

Spring
MUL 2010* req# 1B2-GEP 3
PHY 3752C* req# 3-Core 3
PHY 4324 Elect Mag II 3
PHY 4605 Wave Mechanics II 3
COP 3903C* req# 4-Spec 3

Senior Year
Fall
PHY 3513 Thermal & Stat Phy 3
PHY 4912 Ind Research 3
COT 4500* req# 4-Spec 3
PHY 3722C Physics L Elect 3
Elective* Check restrictions 3

Spring
PHY 3513 Thermal & Stat Phy 3
PHY 4500* req# 1E2-GEP 3
PHY 4424* req# 4-Spec 3
PHY 3722C Physics L Elect 3
Elective* Check restrictions 3

Elective* Check restrictions 3
### UCF Degree Programs

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<td>Political Behavior</td>
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#### B. International Relations and Comparative Government

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#### C. Political Theory

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<td>Modern Political Ideologies</td>
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<td>POS 4025</td>
<td>Ancient, Medieval and Early Modern Political Philosophy</td>
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<td>Modern Political Philosophy</td>
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<td>POT 4305</td>
<td>The State, Society, and the Individual</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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Time Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admission:</td>
<td>Met by graduation requirement</td>
</tr>
<tr>
<td>Graduation:</td>
<td>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.</td>
</tr>
</tbody>
</table>

#### 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 hours

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### 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
- Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

### 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>
</tr>
</thead>
<tbody>
<tr>
<td>AMH 2010 U S His 1492 1877</td>
<td>ENC 1101 Composition I</td>
</tr>
<tr>
<td>ENC 1102 Composition I</td>
<td>ENC 1102 Composition II</td>
</tr>
<tr>
<td>MGF 1106* req# 1C1-GEP</td>
<td>REL 2300* req# 1B3-GEP</td>
</tr>
<tr>
<td>POS 2041 Amer National Gvt</td>
<td>POS 2041 Amer National Gvt</td>
</tr>
<tr>
<td>PSY 2012* req# 1D2-GEP</td>
<td>STA 2014C Prin of Statistics</td>
</tr>
</tbody>
</table>

#### Sophomore Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 1005* req# 1E2-GEP</td>
<td>PSC 1121* req# 1E1-GEP</td>
</tr>
<tr>
<td>POS 4284* req# 4A-ResElec</td>
<td>POS 3703 Meth of Pol Sci</td>
</tr>
<tr>
<td>POS 3103* req# 4B-ResElec</td>
<td>Elective* Check restrictions</td>
</tr>
<tr>
<td>POS 4063* req# 4A-ResElec</td>
<td>SPR 1121* req# Lang/Elec</td>
</tr>
<tr>
<td>POS 4603* req# 4A-ResElec</td>
<td>STA 2014C Prin of Statistics</td>
</tr>
</tbody>
</table>

#### Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS 3233* req# 4A-ResElec</td>
<td>POS 4064* req# 4A-ResElec</td>
</tr>
<tr>
<td>POS 3424* req# 4A-ResElec</td>
<td>Elective* Check restrictions</td>
</tr>
<tr>
<td>POS 4603* req# 4A-ResElec</td>
<td>Elective* Check restrictions</td>
</tr>
</tbody>
</table>

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220 UNIVERSITY OF CENTRAL FLORIDA 2005-2006 Undergraduate Catalog
CPO 3034* req# 4B-ResElec  3  Elective* Check restrictions  3
Elecive* Check restrictions  3  Elective* Check restrictions  3

Senior Year

Fall  Spring
POT 3204* req# 4C-ResElec  3  POS 3173* req# 4 A,B,C  3
Elective* Check restrictions  3  Elective* Check restrictions  3
Elective* Check restrictions  4  Elective* Check restrictions  3
Elective* Check restrictions  3  Elective* Check restrictions  3
Elective* Check restrictions  3  Elective* Check restrictions  3

1. UCF General Education Program  (36 hrs)
A. Communication Foundations  9 hrs
B. Cultural and Historical Foundations
   Prefer WOH 2012 World Civilization I and WOH 2022 World Civilization II  3 hrs
   Select from GEP list  3 hrs
C. Mathematical Foundations  6 hrs
   Select MGF 1106 Finite Mathematics  3 hrs
   (may substitute a higher level math)
   Select STA 2014C Principles of Statistics or STA 1060C Statistics Using Excel  3 hrs
D. Social Foundations
   Select POS 2041 American National Government  3 hrs
   Select one of the three choices  3 hrs
E. Science Foundations  6 hrs

2. Common Program Prerequisites  (3 hrs)
   INR 2002* International Relations-Theory and Practice  3 hrs
   POS 2041* American National Government  3 hrs
   *See Transfer Notes for possible substitutes

3. Core Requirements  (18 hrs)
   INR 2002 International Relations-Theory and Practice  3 hrs
   POS 2041 American National Government  3 hrs
   ECO 2013 Principles of Macroeconomics  3 hrs
   GEO 3470 World Political Geography  3 hrs
   IDS 4315 Global Perspectives  3 hrs
   CPO 3103 Comparative Politics  3 hrs
   POS 3703 Scope and Methods of Political Science  3 hrs
   INR 4603 International Relations Theory  3 hrs

4. Restricted Electives  (18 hrs)
   Note: Students must meet all prerequisites before taking these classes.
   Regional  9 hrs
   CPO 3034 Politics of Developing Areas  3 hrs
   CPO 3104 Politics of Western Europe  3 hrs
   CPO 3403 Politics of the Middle East  3 hrs
   CPO 3614 Politics of Eastern Europe  3 hrs
   CPO 4062 Comparative Judicial Process  3 hrs
   CPO 4074 Political Economy  3 hrs
   CPO 4104 European Union Politics  3 hrs
   CPO 4123 Government and Politics of Great Britain  3 hrs
   CPO 4303 Comparative Latin American Politics  3 hrs
   CPO 4553 Politics of Japan  3 hrs

   Functional  9 hrs
   INR 3253 International Politics of Africa  3 hrs
   INR 4030 Diplomacy  3 hrs
   INR 4076 Global Dev Policy  3 hrs
   INR 4075 Human Rights Policy  3 hrs
   INR 4074 Immigration Policy  3 hrs
   INR 4304 Issues in International Public Policy  3 hrs
   INR 4714 Politics of International Trade Policy  3 hrs
   INR 4584 The Intelligence Community  3 hrs
   INR 4603 International Relations Theory  3 hrs
   INR 4085 Women, Gender, and Globalization  3 hrs
   INR 4102 American Foreign Policy  3 hrs
   INR 4104 Topics and Cases in American Foreign Policy  3 hrs
   INR 4114 American Security Policy  3 hrs
   INR 4115 Strategic Weapons and Arms Control  3 hrs
   INR 4224 Contemporary International Politics of Asia  3 hrs
   INR 4243 International Politics of Latin America  3 hrs
   INR 4304 Issues in International Public Policy  3 hrs
   INR 4335 Coercion and International Politics  3 hrs
   INR 4351 International Environmental Law  3 hrs
   INR 4401 International Law I  3 hrs
   INR 4402 International Law II  3 hrs
   INR 4404 Space Law  3 hrs
   INR 4502 International Organizations  3 hrs
   INR 4941 Internship (a maximum of 3 hrs)  3 hrs
   PUP 4503 Government and Science  3 hrs
   PUP 4510 Space Policy  3 hrs

5. Required minor  (18 hrs minimum)
   Select from the following: Asian Studies, French, German, International Business (Business majors only), Italian, Latin American Studies, Middle East Studies, or Spanish. Note: No more than one course may be used to fulfill both this track and the minor.

6. Departmental Exit Requirements
   ■ Maintain a minimum GPA of 2.0 in the major
   ■ Computer Competency met by POS 3703

7. Foreign Language Requirements  (0-11 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.

8. Electives  (variable)
   Select primarily from upper level courses, with departmental advisors approval. May be outside of the department.

9. University Minimum Exit Requirements
   ■ A 2.0 UCF GPA
   ■ 60 semester hours earned after CLEP awarded
   ■ 48 semester hours of upper division credit completed
   ■ 30 of the last 36 hours of course work must be completed in residency at UCF
   ■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   ■ Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required  120 hours
Related Programs: Economics, History
Related Minors: Economics, History, Psychology, Sociology, Philosophy
Transfer Notes:
■ Courses taken at community colleges do not substitute for Upper Division courses.
■ Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
Acceptable Substitutes for common program prerequisites if taken...
Student who change degree programs and select this major

**Degree Requirements**

- Admission Requirements: none

For professional school.

- Study the requirements for a Political Science Degree while preparing you

- For further information, consult one of the Department's prelaw advisors or the College of Arts and Sciences Prelaw Advisor.

- The following represent a suggested curriculum which both meets

- Students usually choose the prelaw emphasis within the political science major.

- Prelaw students are encouraged to work closely with a prelaw advisor in planning their programs. By judicious use of electives, students build a firm foundation for law school entry and acquire a broad training which can result in career options upon graduation.

- For further information, consult one of the Department's prelaw advisors or the College of Arts and Sciences Prelaw Advisor.

- The following represent a suggested curriculum which both meets

  **Admission Requirements**

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<tr>
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<td>Co-op or internship credit cannot be used in this major without prior departmental approval</td>
</tr>
<tr>
<td>Students should consult with a departmental advisor</td>
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<tr>
<td>Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science</td>
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<tr>
<td>Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours</td>
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**POLITICAL SCIENCE - PRELAW TRACK (B.A.)**

**College of Arts and Sciences**

**Political Science Department, CNH 415, 407-823-2608**

**http://pegasus.cc.ucf.edu/~politics**

E-mail: politics@ucf.edu

R. Handberg, 407-823-2608

While no specific major is prescribed for admission to law school, many prelaw students elect to major in political science. These individuals usually choose the prelaw emphasis within the political science major.

Prelaw students are encouraged to work closely with a prelaw advisor in planning their programs. By judicious use of electives, students build a firm foundation for law school entry and acquire a broad training which can result in career options upon graduation.

For further information, consult one of the Department’s prelaw advisors or the College of Arts and Sciences Prelaw Advisor.

The following represent a suggested curriculum which both meets

**Degree Requirements**

- Admission Requirements: none

- For professional school.

- Study the requirements for a Political Science Degree while preparing you

- For further information, consult one of the Department's prelaw advisors or the College of Arts and Sciences Prelaw Advisor.

- The following represent a suggested curriculum which both meets

  **Admission Requirements**

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</tr>
</tbody>
</table>

**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 US History: 1877 - Present 3 hrs
  - Select from GEP B.2 list 3 hrs

- **C. Mathematical Foundations**
  - Select MGF 1106 Finite Mathematics 6 hrs
  - (may substitute a higher level math)

- **D. Social Foundations**
  - Select POS 2041 American National Gvt 3 hrs
  - Select one of the three choices 3 hrs
  - Select primarily from upper level courses, with departmental advis-

- **E. Science Foundations**
  - Select one of the three choices 3 hrs

**2. Common Program Prerequisites** (3 hrs)

- **POS 2041** American National Gvt 3 hrs
- **POS 3703** Scope & Methods of Pol Sci 3 hrs

**3. Core** (9 hrs)

- **POS 2041** American National Government 3 hrs
- **POS 3703** Scope & Methods of Pol Sci 3 hrs

**4. Upper Division Restricted Electives** (30 hrs)

- **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

- **Select one (See listing under Political Science)**
  - Five courses from area A and
  - Two courses from area B
  - or
  - Two courses from area A

- **Suggested Plan of Study:**

  One of numerous possible plans of study. See program description for all require-

- **Freshman Year**
  - Fall
  - POS 2041 Amer National Gvt
  - ENC 1101 Composition I
  - ACG 2021 Principles of Financial Accounting
  - INR 4401 International Law I
  - SPC 1600
dents must adopt the most current catalog.

Prior to transferring to UCF:

- POS 2041* and INR 2002*: Although state mandated CPP accept any six hours of introductory Political Science classes, both POS 2041 and INR 2002 are required in the major.

Other 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.

**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 3320, 3321 Business Law I & II
- PLA 3104 Legal Research
- PLA 3135 Legal Writing
- PHIL 2101 Critical Thinking
- MTH 3302 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 Coordinator, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquar-

Related Programs:

- Economics, History, Philosophy

Related Minors:

- Economics, History, English, Philosophy

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- POS 2041* and POS 3703*: State mandated Common Program Prerequisite allow a student to enter the major with any six hours of introductory Political Science classes with a POS, INR, or CPO prefix. However, both POS 2041 and POS 3703 are course prerequisites for subsequent courses in the major, and other classes will not substitute.

**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**

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

Some suggested electives include:

- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting
- BUL 3320, 3321 Business Law I & II
- PLA 3104 Legal Research
- PLA 3135 Legal Writing
- PHIL 2101 Critical Thinking
- MTH 3302 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 Coordinator, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquar-

Related Programs:

- Economics, History, Philosophy

Related Minors:

- Economics, History, English, Philosophy

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- POS 2041* and POS 3703*: State mandated Common Program Prerequisite allow a student to enter the major with any six hours of introductory Political Science classes with a POS, INR, or CPO prefix. However, both POS 2041 and POS 3703 are course prerequisites for subsequent courses in the major, and other classes will not substitute.
PSY 2012* req# 1D2-GEP 3 STA 2014C Prin of Statistics 3

Sophomore Year
Fall
BSC 1005* req# 1E2-GEP 3 PSC 3121* req# 1E1-GEP 3
PSC 4284 Jud Process Pol 3 PSC 3710 Meth of Pol Sci 3
CPO 3103* req# 4.2B-RE 3 PSC 4604* req# 4.1-ResEle 3
Elective* Check restrictions 3 Elective* Check restrictions 3
SPN 4120* req# Lang/Elec 4 SPN 4121* req# Lang/Elec 4

Junior Year
Fall
PSY 4903H Directed Honors Readings 3 hrs

Have a Psychology GPA above 3.5, based on at least 11 credits,
Application and admission through the department

Additional Requirements (6 hrs)
Honors in Psychology:

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 9 hrs
Select MGF 1106 Finite Math (may substitute a more advanced math) 3 hrs
Select STA 2023 Statistical Methods I or STA 2014C Principles of Statistics 3 hrs
D. Social Foundations 3 hrs
Select one of the listed choices

Select PSY 2012 General Psychology 3 hrs

E. Science Foundations
Select BSC 1005 Biological Principles 3 hrs
Select one of the listed choices 3 hrs
*See Transfer Notes for possible substitutions

2. Common Program Prerequisites (3 hrs)
BSC 1005* Biological Principles GEP
PSY 2012* General Psychology GEP
DEP 2004* Developmental Psychology 3 hrs
STA 2023* Statistical Methods I or STA 2014C GEP
*See Transfer Notes for possible substitutes

3. Core requirements (10 hrs)
EXP 3404 Basic Learning Processes 3 hrs
PSB 3002 Physiological Psychology 3 hrs
PSY 3213C Research Methods 4 hrs

4. Restricted Electives (12 hrs)
Select two of the following three courses 6 hrs
DEP 2004 Developmental Psychology
PPE 3003 Personality Theory
SOP 3004 Social Psychology
Select six additional upper division hours in Psychology 6 hrs

5. Diversity 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 3184 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 2772 Sexual Behavior
SOP 3784 Psychology of Diversity
B. General Diversity courses
Select from courses outside the Psychology department that focus on gender, class, or minority issues: AMH 3421, AMH 2423, AMH 3561, AMH 3562, AMH 3571, AMH 3572, AMH 3586; AAS 3283, AAS 3614, AAS 3615, AAS 3622, AAS 3640, AAS 4261, ANT 3241, ANT 3245, ANT 3250, ANT 3311, ANT 3312, ANT 3322, ANT 3326, ANT 3541, ANT 3640, ARH 3520, ASH 4304, ASH 4404, ASH 4442, CCJ 4463, CCJ 4470, CJE 4174, CLA 3913, COM 4014, COM 4661, CPO 3463, EUR 4576, FIL 3309, GEO 3470, GEY 3001, HSC 4564, HUM 3320, HUM 3401, HUM 3419, JST 3401, JST 3402; LAH 3130, LAH 3200, LAH 3400, LAH 5713; LIN 4643; LIT 3933, LIT 3912; MMC 4360; NUR 4805; NUR 4816; PAD 4466; PHI 3022, PHI 3033; PHM 3123; PLA 4202, PLA 4390; POS 4246, POS 4262; PUP 3314, PUP 4323; REL 3162; SOW 3420; SPA 6002, SPA 6003; SPW 4772; SYD 3700, SYD 3750; SYD 3751, SYD 3800; SYP 4233, SYP 4730, SYP 4734, SYD 4810, SYD 4813; THE 3230; WST 3015.

6. Departmental Exit Requirements
Earn a grade of “C” (2.0) or better in each psychology course used for major
Maintain a minimum overall psychology GPA of 2.0
Computer Competency met by PSY 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
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. 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 120 hours
UCF Degree Programs

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.
- PSY 2012*: any PSY course. However, PSY 2012 is a prerequisite for all subsequent Psychology courses and will need to be taken for the major.
- STA 2023* or STA 2014C: any lower level STA course. However, STA 2023 (or STA 2014C) is a prerequisite for subsequent Psychology courses and will need to be taken for the major.
- DEP 2004*: any lower level psychology course.

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 requirement. 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 1001 req* 1C1-GEP 3
POS 2041* req 1D1-GEP 3
PSY 2012 General Psychology 3

Spring
ENC 1102 Composition II 3
FSC 1121* req 1E1-GEP 3
REL 2300* req 1B2-GEP 3
SOP 1016* req 1A3-GEP 3
DEP 2004 Dev Psycholgy 3

Sophomore Year
Fall
AMH 2010* req 1B1-GEP 3
MUL 2010* req 1B3-GEP 3
STA 2023 Stat Methods I 3
SOP 2772* req 5A-Diver 3
SPH 1120* req 4

Spring
PSY 3213C Res Meth in Psych 4
PPE 3003* req 4-ResEl 3
SYD 3800* req 1B3-GEP 3
PSY 3213C Res Meth in Psych 4

Junior Year
Fall
EXP 3404 Basic Learn Proc 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3
SPH 1120* req 5A-Diver 4

Spring
PSY 3213C Res Meth in Psych 4
PPE 3003* req 4-ResEl 3
SYD 3800* req 1B3-GEP 3
PSY 3213C Res Meth in Psych 4

Senior Year
Fall
CLP 3143* req 4-ResElect 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3

Spring
CLP 3302* req 4-ResElect 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3
Elective* Check restrictions 3

PSYCHOLOGY (B.S.)

College of Arts and Sciences
Psychology Department, PH 302B, 407-823-2216
http://www.psych.ucf.edu/
E-mail: 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.
- Departmental Residency Requirement: at least 21 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Psychology Department.
- Students must earn at least a “C” (2.0) in each Psychology course counted toward the major requirements.
- Co-op or internship credit cannot be used in this major without prior approval.
- 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
(37 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 3 hrs
Select MGF 1106 Finite Math (may substitute a more advanced math)
Select STA 2023 Statistical Methods I or STA 2014C Principles of Statistics 3 hrs
D. Social Foundations 3 hrs
Select one of the listed choices
Select PSY 2012 General Psychology 3 hrs
E. Science Foundations 3 hrs
Select BSC 2010C Biology I or BSC 1005 (if no additional Biology courses are planned) 4 hrs
Select one of the listed choices 3 hrs

*See Transfer Notes for possible substitutions

2. Common Program Prerequisites
(3 hrs)
BSC 2010C* Biology I or BSC 1005 (if no additional Biology courses are planned) 3 hrs
Select one of the listed choices 3 hrs

*See Transfer Notes for possible substitutions

3. Core requirements
(14 hrs)
EXP 3404 Basic Learning Processes 3 hrs
PSY 3213C Research Methods in Psych 4 hrs
PSY 4215C Advanced Research Methods 4 hrs

4. Restricted Electives
(12 hrs)
A. Select two of the following: 6 hrs
- DEP 2004 Developmental Psychology
- PPE 3003 Personality Theory
- SOP 3004 Social Psychology

B. Psychology electives: select six additional upper division hours in psychology 6 hrs

5. Diversity courses
(6 hrs)
Take two diversity courses - one from A & one from B
- A. Psychology Diversity courses 3 hrs
- CLP 3184 Women’s Mental Health
- DEP 3464 Psych of Aging
- SOP 3723 Cross Cultural Psychology
- SOP 3724 Psych of Racial Prejudice
- SOP 3742 Psych of Women
- SOP 2772 Sexual Behavior
- SOP 3784 Psychology of Diversity

- B. General Diversity courses 3 hrs
Select from courses outside the Psychology department that focus on gender, class, or minority issues: AMH 3421, AMH 3422, AMH 3561, AMH 3562, AMH 3571, AMH 3572, AMH 3586; AML 3293, AML 3614, AML 3615, AML 3682, AML 3640, AML 4261, ANT 3241, ANT 3245, ANT 3302, ANT 3311, ANT 3331, ANT 3332, ANT 3363, ANT 3354, ANT 3360; ARH 3520; ASH 4304, ASH 4404, ASH 4442; CCJ
6. Science Electives (12 hrs)
A. Select at least six credits outside Psychology from: 6-8 hrs

6. Science Electives (12 hrs)

4813; THE 3230; WST 3015.
3750, SYD 3751, SYD 3800; SYP 4323, SYP 4730, SYP 4734, SYD 4810, SYD 4323; REL 3162; SOW 3420; SPA 4602, SPA 4603; SPW 4772; SYD 3750, SYD 3751, SYD 3800; SYP 4323, SYP 4734, SYD 4810, SYD 4813; THE 3230; WST 3015.

B. Select at least two of the following: 5-8 hrs

Acceptable Substitutes for common program prerequisites if taken

A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

Complete the General Education Program, the Gordon Rule, the

Total Semester Hours Required 120 hours

Related Programs: Sociology, Anthropology, Statistics, Criminal Justice

Related Minors: Psychology, Sociology, Anthropology, Math, Statistics

Transfer Notes:
Courses taken at community colleges do not substitute for Upper Division courses

Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken

prior to transferring to UCF:

BSC 2010C: any lower level BSC course or ZOO X010.

However, BSC 2010C is a prerequisite for all subsequent Biology courses and thus may need to be taken in order to qualify for other Biology courses used as science electives for the BS degree in psychology.

PSY 2012: any PSY course. However PSY 2012 is a prerequisite for all subsequent Psychology courses and will need to be taken for the major.

STA 2023 or STA 2041C: or any lower level STA course.

However, STA 2023 (or STA 2041C) 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 alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall Spring

ARH 2050* req# 1B3-GEP 3 BSC 2010C Biology I 4
ENC 1101 Composition I 3 ENC 1102 Composition II 3
MGF 1106* req# 1C1-GEP 3 MGF 2106* req# 1C2-GEP 3
PSB 3441* req# 1D1-GEP 3 PSB 3442* req# 1D2-GEP 3
PSY 4213L Adv Res Meth Psych 4 PSY 2012 General Psychology 3
STA 2041C Prin of Statistics 3 STA 2041C Prin of Statistics 3

Sophomore Year

Fall Spring

EUH 2000* req# 1B1-GEP 3 EUH 2001* req# 1B2-GEP 3
DEP 2004 Dev Psychology 3 DEP 2004 Dev Psychology 3
EXP 3404 Basic Learn Proc 3 EXP 3404 Basic Learn Proc 3
SOP 3004 Social Psychology 3 SOP 3004 Social Psychology 3
SPN 3121* req# Lang/Elec 4 SPN 3121* req# Lang/Elec 4

Junior Year

Fall Spring

PSB 3002 Phys Psychology 3 PSB 3002 Phys Psychology 3
SOP 3724* req# 5A-Diver 3 SOP 3724* req# 5A-Diver 3
SYD 3700* req# 5B-Diver 3 SYD 3700* req# 5B-Diver 3
Elective* Check restrictions 3 Elective* Check restrictions 3
Elective* Check restrictions 3 Elective* Check restrictions 3

Senior Year

Fall Spring

EXP 3204C req# 6B-Sci 4 CLP 3142* req# 4-ResElec 3
Elective* Check restrictions 3 ZOO 3735C* req# 6A-Sci 4
Elective* Check restrictions 3 Elective* Check restrictions 3
Elective* Check restrictions 3 Elective* Check restrictions 3

PUBLIC ADMINISTRATION (B.A., B.S.)
College of Health and Public Affairs
HPA2 238, 407-823-2604
http://www.cohpa.ucf.edu/pubadm/
Chair: Montgomery Van Wart
Undergraduate Coordinator: Ronnie Korosec
Admission Requirements none

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog.

Students should complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System.

Students should consult with a departmental advisor on a regular basis.

The courses designated in sections 1 and 2 below may be taken at a Florida Community College and should usually be completed in the first 60 hours.

Students must earn at least a “C” (2.0) in each course accepted as a Common Program Prerequisite and Core Requirement (see sections 2 and 3 below).

No transfer course will be accepted with a grade lower than a “C” (2.0).
The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural Historical Foundations 9 hrs
   - C. Mathematical Foundations 6 hrs
   - Select CGS 1060C
   - D. Social Foundations (nine hours required for major) 6 hrs
   - Select PSY 2012 or SYG 2000
   - E. Science Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)
   - CGS 1060C Intro to Computer Science GEP
   - POS 2041 American National Government GEP
   - ECO 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;
     - All other PAD majors must complete at least 21 hrs of PAD prefixed electives at the 3000 level or higher within the restricted elective area;
     - Additional electives can be taken from other allied supporting fields such as accounting, legal studies, communications, computer science, criminal justice, economics, political science, social work, sociology and statistics. Courses should be selected with the assistance of an advisor, and must be upper division (3000-4000 level).

5. Departmental Exit Requirements
   - The students must attain a minimum grade of “C” (2.0) in all Common Program Prerequisite courses and in all Core Requirements (see sections 2 and 3 above). An overall 2.0 GPA must be attained for all coursework (see sections 1, 2, 3 and 4).

6. B.A./B.S. Option (6 hrs)
   - Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at the college level.
   - Students pursuing the B.S. degree must complete two additional upper level technical courses (six credit hours) from a list approved by the Department.

7. Foreign Language Requirements (0-8 hrs)
   - Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at the college level, beyond University requirement.

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

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**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
- Economics I (ECO 2013) or any Macroeconomics course
- American National Government (POS 2041) or any course in American National Government

**Tentative Course Schedule for Entering Freshmen**

**Freshman Year**
- **Fall:** 14 hrs  
  ENC 1101 3  
  CGS 1060C 3  
  ECO 2013 3  
  POS 2041 3  
- **Spring:** 15 hrs  
  ENC 1102 3  
  MGF 1106 3  
  AMH 2010 or AMH 2020 3  
  CHM 1020 or PSC 1121 3  
  PHY 2101 or PHY 2110 or PHY 2120 3  
  PAF 2102 2

**Sophomore Year**
- **Fall:** 15 hrs  
  ENC 1101 3  
  CGS 1060C 3  
  ECO 2013 3  
  POS 2041 3  
  ARH 2051 3  
  THE 2000, REL 2300, or ANT 2000 3  
- **Spring:** 15 hrs  
  ENC 1102 3  
  MGF 1106 3  
  AMH 2010 or AMH 2020 3  
  CHM 1020 or PSC 1121 3  
  PHI 2101, LIT 2110, LIT 2120 3  
  PAF 2102 2

**Junior Year**
- **Fall:** 15/16 hrs  
  PAD 4104 3  
  PAD 4144 3  
  PAD Elective 3  
  Restricted Elective 3  
  (Foreign Lang I) or B.S. option 3
- **Spring:** 15/16 hrs  
  PAD 4104 3  
  PAD 4144 3  
  PAD Elective 3  
  Restricted Elective 3  
  (Foreign Lang II) or B.S. option 3

**Senior Year**
- **Fall:** 15 hrs  
  PAD Elective 3  
  PAD Elective 3  
  Restricted Elective 3  
  Restricted Elective 3  
  Restricted Elective 3
- **Spring:** 12/15 hrs  
  PAD Elective 3  
  PAD Internship 3/6  
  Restricted Elective 3  
  Restricted 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 Urban and Regional Planning and Public Administration and also offers certificates in Non-profit Management and Urban and Regional Planning.

**RADIO-TELEVISION (B.A.)**

**College of Arts and Sciences**

Nicholson School of Communication, COM 238
407-823-2681
http://www.cas.ucf.edu/communication
E-mail: radiotv@ucf.edu

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, 2005 for Spring 2006
  - February 1, 2006 for Summer 2006
  - July 1, 2006 for Fall 2006
- 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
with the quality of applicants, and during the previous year, ranged 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
- Co-op or internship credit can be used in this major without prior departmental permission
- Students should consult with a School advisor
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication
- Students electing both a major and minor in the School must take the minor courses in excess of the 120 hours required for graduation
- Students enrolled in the major may not take more than 40 total credit hours from the Nicholson School of Communication
- Students enrolled in the major must take at least 65 hours in the liberal arts
- 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. A total of 6 credit hours of internship may be earned within the 120 credit hours required for graduation. Summer internships are available during “C” (2.0) term only.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. **UCF General Education Program** (36 hrs)

A. Communication Foundations
   - Select ENC 1101 & 1102 Composition 6 hrs
   - Select SPC 1600 Fund Oral Communication 3 hrs

B. Cultural and Historical Foundations
   - Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
   - Select CGS 1060C Intro. to Computer Science 3 hrs

C. Mathematical Foundations
   - Select CGS 2585C Desktop/Internet Publishing 3 hrs

D. Social Foundations 6 hrs

E. Science Foundations 6 hrs

2. **Common Program Prerequisites**

   SPC 1600 Fund Oral Communication 3 hrs

3. **Core requirements (all areas)** (21 hrs)

   - Select one of the following: 3 hrs
     - CGS 2100C Computer Fundamentals of Business
     - CGS 2585C Desktop/Internet Publishing
     - CGS 3175 Internet Applications
     - RTV 2102 Writing for the Electronic Media 3 hrs
     - RTV 3200 Development and Structure of Electronic Media 3 hrs
     - RTV 3000 Development and Structure of Media and New Technology 3 hrs
     - MMC 4200 Mass Communication Law 3 hrs
     - RTV 4403 Elect Media, Tech, and Society 3 hrs
     - MMC 3420 Mass Comm Research Meth 3 hrs

4. **Specialization: select one area**

4.1 **Production** (18 hrs)

   (Select 15 hours from the following)
   - RTV 3210C Audio Production I 4 hrs
   - RTV 3228C Studio Television Production 4 hrs
   - RTV 3223C Lighting for Video 3 hrs
   - RTV 3260C Single-Camera Video Production 4 hrs
   - RTV 3263C Advanced Video Post-Production 3 hrs
   - RTV 3283C Production of Int. Multimedia 3 hrs
   - RTV 3942L Practicum 1-3 hrs
   - RTV 4211C Audio Production II 3 hrs
   - RTV 4280C Webcasting I 3 hrs
   - RTV 4281C Webcasting II 3 hrs
   - RTV 4286C Television Directing 4 hrs
   - RTV 4270C Radio Production & Programming 3 hrs
   - RTV 4941 Internship 1-3 hrs

4.2 **Broadcast Journalism** (19 hrs)

   - RTV 3260C Single-Camera Video Production 4 hrs
   - RTV 3228C Studio Television Production 4 hrs
   - RTV 4270C Radio Production & Programming 3 hrs
   - RTV 4320C Television News 3 hrs
   - MMC 4602 Contemporary Media Issues 3 hrs
   - JOU 3004 History of American Journalism 3 hrs

4.3 **Broadcast Generalist** (18 hrs)

   A. Select 12 hours from Group A:
      - RTV 3231C Broadcast Announcing & Performance 4 hrs
      - RTV 4270C Radio Production & Programming 3 hrs
      - RTV 4700 Regulation of Broadcasting 3 hrs
      - RTV 4800 Broadcast Management 3 hrs
      - ADV 4103 Radio-TV Advertising 3 hrs
      - CMC 4240 Corporate/Institutional Video 3 hrs
      - COM 3330 Computer-Mediated Comm. 3 hrs
      - MMC 4263 New Media Technologies 3 hrs

   B. Select 6 hours from Group B:
      - ADV 3000 Principles of Advertising 3 hrs
      - PUR 4000 Public Relations 3 hrs
      - COM 3110 Business & Prof. Comm. 3 hrs
      - ENC 2210 Writing for Business Professionals 3 hrs

5. **Required Minor** (18 hrs minimum)

   Radio-Television majors must complete an 18 hour minor in an academic area outside the School of Communication.

6. **School Exit Requirements**

   - To avoid delaying graduation, you must request a review of requirements before registering for your last term
   - Achieve an overall “C” GPA (2.0) in required UCF Radio/TV courses. This GPA does not include Restricted Electives in the major or other electives.
   - Computer competency met by CGS 1060C.

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. Students should take electives from outside of the School.

9. **University Minimum Exit Requirements**

   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in 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:** Advertising/Public Relations, Animation, Digital Media, Journalism, Film, Theatre

**Related Minors:** Digital Media, Film, Marketing, Theatre

**Transfer Notes:**
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
RADIOLOGIC SCIENCES (B.S.)
College of Health and Public Affairs
HPA2 210, 407-823-2747
http://www.cohpa.ucf.edu/health.pro/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.

Students 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.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural Historical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select MAC 1105</td>
<td></td>
</tr>
<tr>
<td>Select CGS 1060C</td>
<td></td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select BSC 2010C</td>
<td></td>
</tr>
<tr>
<td>Select PHY2053C</td>
<td></td>
</tr>
</tbody>
</table>

2. Common Program Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1060C Introduction to Computer Science</td>
<td>GEP</td>
</tr>
<tr>
<td>PCB 3703C Human Physiology*</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PHY 2054C College Physics II</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ZOO 3733C Human Anatomy*</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAC 1105 College Algebra</td>
<td>GEP</td>
</tr>
</tbody>
</table>

* See Transfer Notes

3. Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTE 3000 Introduction to Radiologic Sciences</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 3111C Introduction to Patient Care</td>
<td>2 hrs</td>
</tr>
<tr>
<td>RTE 3503C Radiographic Procedures I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 3116 Advanced Patient Care</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

4. Upper Division Restricted Electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTE 4209 Radiological Adm. Practice</td>
<td>2 hrs</td>
</tr>
<tr>
<td>RTE 4903 Directed Study Radiologic Education</td>
<td>2 hrs</td>
</tr>
</tbody>
</table>

5. Program Exit Requirements

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 proficiency exam) prior to graduation.
Graduation: none

8. University Minimum Exit Requirements

- An overall GPA of 2.5
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 48 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces 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: Cardiopulmonary Sciences, Nursing, Health Services Administration

Related Minors: Health Services Administration

Transfer Notes:

Credit by Examination
Credit by Exam for clinical education courses will be awarded to ARRT certified Registered Technologists who demonstrate advanced knowledge and competencies beyond the level required for entry into the profession. The knowledge required to perform advanced competencies may be demonstrated by registration in multiple disciplines, registration in an advanced level of certification or completion of the Advanced Clinical Practicum course. Students who successfully complete the requirements for credit by exam will be awarded a grade of “S” for the clinical education courses required in their program of study.
Credit by exam for didactic courses will be awarded according to the process described in the UCF catalog.
Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

228 UNIVERSITY OF CENTRAL FLORIDA 2005-2006 Undergraduate Catalog
Community College Equivalents:
- Human Anatomy and Physiology I and II (BSC 1066C and BSC 1068C) 8 hrs
- College Algebra (MAC 1147) 3 hrs
- College Physics II (PHY 2054C) 4 hrs
- Introduction to Computer Science (CGS 1060C) 3 hrs

Tentative Course Schedule for Entering Freshmen

RADIOLOGIC SCIENCES

Freshman Year

Fall 15 hrs  Spring 16 hrs
- ENC 1101 3  - ENC 1102 3
- CGS 1060C 3  - BSC 2010C 4
- MAC 1105 3  - MAC 1114 3
- CHM 1032 4  - ECO 2012 or POS 2041 or 3
- HSC 2000 2  - ECO 2023
- MUL 2010 or THE 2000 or 3  - REL 2300 or PHI 2010 or
- REL 2000 or REL 2010 or 3  - ARH2050 or FIL2400

Sophomore Year

Fall 14 hrs  Spring 14 hrs
- PHY 2053C 4  - PCB 3703C 4
- ZOO 3722C 4  - SPC 1500 4
- EUH 2000 or HUM 2211 3  - PHY 2054C 4
- or AMH 2010 3  - EU2001 or
- or AMH 2010 3  - STA 2023 Statistical Methods I

Junior Year

Fall 16 hrs  Spring 16 hrs
- RTE 3000 3  - RTE 3457C
- RTE 3111C 2  - RTE 3340 4
- RTE 3418C 3  - RTE 3513C 3
- RTE 3503C 3  - HSC 4500 3
- RTE 3884C 3  - RTE 3116 3
- HSC 3640 3  -

Senior Year

Fall 13 hrs  Spring 14/16 hrs
- STA 2023 3  - RTE 4834 4
- RTE 4814 3  - RTE 4572 3
- RTE 4242L 6  - RTE 4473 3
- RTE 4573 3  - RTE 4206 3
- Electives 3  - Electives 2
- RTE 4209 or RTE 4903 (2)

Summer 6 hrs
- RTE 4944 4
- RTE 4854** 2

**Completed during the Spring or Summer semester/term.

RADIOLOGIC SCIENCES (B.S.)

AS to BS TRACK

Note: For detailed information about this program, see description in the Articulated AS to BS Program section.

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
Dear: Abraham Pizam

Degree Requirements
1. UCF General Education Program (GEP) (36 hrs)
   A. Communications Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs

C. Mathematical Foundations
   - Select MAC 1105 College Algebra 3 hrs
   - Select CGS 2100C Computer Fundamentals for Business or 3 hrs
   - 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 2211C Quantity Food Preparation 3 hrs

3. Quantitative Tools
   - CGS 2100C Computer Fundamentals of Business 3 hrs
   - or STA 2023 Statistical Methods I (GEP) 3 hrs
   - ECO 2013 Macroeconomics 3 hrs
   - or ECO 2023 Microeconomics 3 hrs
   - MAC 1105 College Algebra 3 hrs

4. Managerial Tools (25 hrs)

5. Internship (3 hrs)

6. Restaurant Management Core (18 hrs)

7. Special College Requirements
   - Final exams will be given during Exam Week only.
   - Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management classes at UCF.
   - The Rosen College of Hospitality Management requires all first time at UCF students to live in the Rosen College student apartments for their first year enrolled in the College.

8. Restricted Electives (18 hrs)
   Choose any courses from the list below for a total of 18 credit hours
   - FSS 2222C Intermediate Techniques of Food Production 3 hrs
   - FSS 3007 Multi-Unit Food Service Operations 3 hrs
   - FSS 4226 Catering and Banquet Organization 3 hrs
   - HFT 4645 Restaurant Real Estate, Site Selection and Modeling 3 hrs
   - HFT 4851C Beverage Management 3 hrs
   - HFT 4425 Financial Analysis for Restaurant Managers 3 hrs
   - HFT 3574 Foodservice Marketing, Advertising, and Promotion Management 3 hrs
   - HFT 4369 Case Studies in Multi-Unit Restaurant Mgt 3 hrs
   - HFT 3654 Franchising in the Restaurant Industry 3 hrs
   - HFT 4281 Restaurant Leadership Strategies and Tactics 3 hrs
   - HFT 4286 Catering and Banquet Organization 3 hrs
   - HFT 3610 Law and Restaurant Management 3 hrs
   - HFT 3834 Topics in Restaurant & Foodservice Management 3 hrs
   - HFT 4864 Anheuser-Busch Seminar in Quality Brewing and Fine Beer 3 hrs
   - HFT 4865 Exploring Wines of the World 3 hrs
   - HFT 4844 Sanitation in the Food Service Industry 3 hrs
   - HFT 4462 Hospitality Industry Finance 3 hrs
   - HFT 4286 Hospitality Communications 3 hrs

UCF Degree Programs
9. Foreign Language Requirements (0-8 hrs)
State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

10. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 48 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 to 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 15 Hrs
ENC 1101 - Eng Comp I 3 hrs
Cult/Hist Found Sequence I 3 hrs
CGS 2100C or STA 2023 3 hrs
HFT 1000 - Intro to Hosp Man 3 hrs
PSY 2012, SYG 2000, or ANT 2000 3 hrs

Spring 15 Hrs
ENC 1102 - Eng Comp II 3 hrs
SPC 1600 - Fund Oral Comm 3 hrs
MAC 1105 - College Algebra 3 hrs
FSS 2212C - Quant Food Prep 3 hrs

Sophomore Year
Fall 15 Hrs
FSS 3124 - Sub & Prod Mgmt 3 hrs
HFT 3444 - Hosp Info Systems 3 hrs
HFT 2220 - Hosp Hum Res Mgmt 3 hrs

Spring 15 Hrs
Science Foundation I 3 hrs
ECO 2013 or ECO 2023 3 hrs
HFT 3261 - Restaurant Mgmt 3 hrs
HFT 2403 - Hosp Fin Acct 3 hrs
HFT 2220 - Hosp Hum Res Mgmt 3 hrs

Junior Year
Fall 14 Hrs
Science Foundation II 3 hrs
HFT 3540 - Guest Svc Mgmt 3 hrs
HFT 4281 - Leader Strategies 3 hrs
HFT 3940 - Practicum I 1 hr
HFT 3933 - Dist Lct in Hosp 3 hrs

Spring 15 Hrs
HFT 4894 - Internship 3 hrs
HFT 3868 - History of Wine and Culture 3 hrs
HFT 3444 - Hosp Info Systems 3 hrs
HFT 3940 - Practicum II 1 hr
HFT 3933 - Dist Lct in Hosp 3 hrs

Senior Year
Fall 15 Hrs
Rest & F.S. Elective 3 hrs
Rest & F.S. Elective 3 hrs
Rest & F.S. Elective 3 hrs
HFT 4941 - Practicum III 1 hr
Unrestricted Electives 5 hrs

Spring 15 Hrs
Rest & F.S. Elective 3 hrs
Rest & F.S. Elective 3 hrs
Rest & F.S. Elective 3 hrs
Unrestricted Electives 3 hrs

SCIENCE EDUCATION - BIOLOGY (B.S.)
College of Education
Department of Teaching and Learning Principles
ED 209
http://www.edcollege.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

1. UCF General Education Program (36 hrs)
A. Communication Foundations (9 hrs)
ENC 1101 Composition I 3 hrs
ENC 1102 Composition II 3 hrs
SPC 1600 Fundamentals of Oral Communication 3 hrs

B. Cultural-Historical Foundations (9 hrs)
AMH 1010 U.S. History 1492-1877 3 hrs
AMH 2020 U.S. History 1877-Present 3 hrs

C. Mathematical Foundations (6 hrs)
MGF 1106 Finite Mathematics 3 hrs

D. Social Foundations (6 hrs)
Select one:
STA 1060C Basic Statistics using MS Excel or
STA 1204C Principles of Statistics

2. Common Program Prerequisites (31 hrs)
A. Communications
ENC 1101 Composition I 3 hrs
ENC 1102 Composition II 3 hrs

B. Humanities
PHI 2010 Introduction to Philosophy 3 hrs

C. Mathematics
MAC 1105 College Algebra 3 hrs
MGF 1106 Finite Mathematics 3 hrs

D. Social Science/History
AMH 1010 U.S. History 1492-1877 3 hrs
AMH 2020 U.S. History 1877-Present 3 hrs

T. Education Courses
EDF 2005 Introduction to Education 3 hrs
EDG 2701 Teaching Diverse Populations 3 hrs
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, and nine hours of Summer credit (if applicable)

11. Total Program Semester Hours Required 126 hours
At this time the 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 (15 hrs)
EDF 2005 3 hrs EDF 2701 3 hrs
ENC 1101 3 hrs ENC 1102 3 hrs
MGF 1106 3 hrs MAC 1105 3 hrs
PSY 2012 3 hrs Phi 2010 3 hrs
ESE 3940 3 hrs PSC 1121 3 hrs

Summer (6 hrs)
EME 2040 3 hrs POS 2041 3 hrs

Sophomore Year
Fall (17 hrs) Spring (16 hrs)
AMH 2010 3 hrs AMH 2020 3 hrs
BSC 2010C w/ lab 4 hrs BSC 2011C 4 hrs
CHM 2045C 4 hrs CHM 2046L 1 hr
SPC 1600 3 hrs CHM 2205 5 hrs
STA 2014C 3 hrs

Summer (6 hrs)
AST 2002 3 hrs ARH 2050 or
MUL 2010 or
THE 2000 or
FIL 2400 3 hrs

Junior Year
Fall (14 hrs) Spring (12 hrs)
EDF 4214 3 hrs ESE 4943 3 hrs
EDG 4323 3 hrs
PCB 3044 3 hrs PCB 3046L 1 hr
PCB 3044L 1 hr TSL 4080 3 hrs
ZOO 3733C 4 hrs

Summer (3 hrs)
LAE 4361 3 hrs

Senior Year
Fall (13 hrs) Spring (12 hrs)
EDF 4603 3 hrs ESE 4943 12 hrs
ESE 3940 3 hrs
SCE 4360 4 hrs
Upper div restricted elect 3 hrs
(BSC/MCB/PCB/ZOO 3/4XXX)

13. SCIENCE EDUCATION - CHEMISTRY (B.S.)
College of Education
Department of Teaching and Learning Principles
ED209
http://www.edcollege.ucf.edu/
Program Coordinator: Dr. Aldrin Sweeney
ED 123-L, 407-823-2561
E-mail: awweeney@pegasus.cc.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its
**UCF Degree Programs**

- Have a minimum 2.5 GPA 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

### 1. UCF General Education Program (37 hrs)

**A. Communication Foundations**
- ENC 1101 Composition I (3 hrs)
- ENC 1102 Composition II (3 hrs)
- SPC 1600 Fundamentals of Oral Communication (3 hrs)

**B. Cultural-Historical Foundations**
- PHI 2010 Introduction to Philosophy (3 hrs)
- PHI 2010 Introduction to Philosophy (3 hrs)

**C. Mathematical Foundations**
- MGF 1106 Finite Mathematics (3 hrs)
- STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics (3 hrs)

**D. Social Foundations**
- POS 2041 American National Government (3 hrs)
- PSY 2012 General Psychology (3 hrs)

**E. Science Foundations**
- PHY 2053C College Physics (includes lab) (4 hrs)

**2. Common Program Prerequisites (23 hrs)**

**A. Communications**
- ENC 1101 Composition I (3 hrs)
- ENC 1102 Composition II (3 hrs)

**B. Humanities**
- PHI 2010 Introduction to Philosophy (3 hrs)

**C. Mathematics**
- MAC 1105 College Algebra (3 hrs)
- MGF 1106 Finite Mathematics (3 hrs)

**D. Social Science/History**
- AMH 2010 U.S. History 1492-1877 (3 hrs)
- AMH 2020 U.S. History 1877-Present (3 hrs)
- POS 2041 American National Government (3 hrs)
- PSY 2012 General Psychology (3 hrs)

**E. Science**
- PHY 2053C College Physics I (3 hrs)

**3. Education Pre-Professional Requirements (3 hrs)**
- MAC 1114 College Trigonometry (3 hrs)

**4. Education Core Requirements (15 hrs)**
- EDF 4214 Classroom Learning Principles (3 hrs)
- EDF 4271 Teaching Diverse Populations (3 hrs)

**5. Internship I Block (7 hrs)**
- SCE 4360 Science Instructional Analysis (4 hrs)
- ESE 3940 Internship I (3 hrs)

**6. Specialization Requirements (27 hrs)**
- BSC 2010C Biology I (3 hrs)
- CHM 2045C Chemistry Fundamentals I (3 hrs)

**7. Restricted Electives (3 hrs)**
- One 3000- or 4000-level CHM, CHS, or BCH course with advisor's approval

**8. Internship II (ESE4943) (12 hrs)**
- SCE 4360 and at least 80% of all required chemistry courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences

**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.
- See additional requirements under College of Education, Office of Clinical Experiences

**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 127 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

- EDF 4214 Classroom Learning Principles (3 hrs)
- EDF 4271 Teaching Diverse Populations (3 hrs)

**Fall (12 hrs)**
- EDF 4214 Classroom Learning Principles (3 hrs)
- ENC 1101 Composition I (3 hrs)
- MAC 1105 College Algebra (3 hrs)
- PSY 2012 General Psychology (3 hrs)

**Spring (16 hrs)**
- EDF 4214 Classroom Learning Principles (3 hrs)
- ENC 1101 Composition I (3 hrs)
- MAC 1105 College Algebra (3 hrs)
- PSY 2012 General Psychology (3 hrs)
- PHY 2053C College Physics I (3 hrs)

### Sophomore Year

- EDF 4214 Classroom Learning Principles (3 hrs)
- EDF 4271 Teaching Diverse Populations (3 hrs)

**Fall (12 hrs)**
- EDF 4214 Classroom Learning Principles (3 hrs)
- ENC 1101 Composition I (3 hrs)
- MAC 1105 College Algebra (3 hrs)
- PSY 2012 General Psychology (3 hrs)

**Spring (16 hrs)**
- EDF 4214 Classroom Learning Principles (3 hrs)
- ENC 1101 Composition I (3 hrs)
- MAC 1105 College Algebra (3 hrs)
- PSY 2012 General Psychology (3 hrs)
- PHY 2053C College Physics I (3 hrs)

### Junior Year

- EDF 4214 Classroom Learning Principles (3 hrs)
- EDF 4271 Teaching Diverse Populations (3 hrs)

**Fall (12 hrs)**
- EDF 4214 Classroom Learning Principles (3 hrs)
- ENC 1101 Composition I (3 hrs)
- MAC 1105 College Algebra (3 hrs)
- PSY 2012 General Psychology (3 hrs)

**Spring (16 hrs)**
- EDF 4214 Classroom Learning Principles (3 hrs)
- ENC 1101 Composition I (3 hrs)
- MAC 1105 College Algebra (3 hrs)
- PSY 2012 General Psychology (3 hrs)
- PHY 2053C College Physics I (3 hrs)

### Senior Year

- EDF 4214 Classroom Learning Principles (3 hrs)
- EDF 4271 Teaching Diverse Populations (3 hrs)

**Fall (12 hrs)**
- EDF 4214 Classroom Learning Principles (3 hrs)
- ENC 1101 Composition I (3 hrs)
- MAC 1105 College Algebra (3 hrs)
- PSY 2012 General Psychology (3 hrs)

**Spring (16 hrs)**
- EDF 4214 Classroom Learning Principles (3 hrs)
- ENC 1101 Composition I (3 hrs)
- MAC 1105 College Algebra (3 hrs)
- PSY 2012 General Psychology (3 hrs)
- PHY 2053C College Physics I (3 hrs)
SCIENCE EDUCATION - PHYSICS (B.S.)

College of Education

Department of Teaching and Learning Principles,
ED 209

http://www.edcollege.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

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)
      ANH 2010 U.S. History 1492-1877
      AMH 2020 U.S. History 1877-Present
      PHI 2010 Introduction to Philosophy
   C. Mathematical Foundations (6 hrs)
      MAC 1105 College Algebra
   D. Social Foundations (6 hrs)
      POS 2041 American National Government
      PSY 2012 General Psychology
   E. Science Foundations (6 hrs)
      PHY 2048 Physics for Scientists I GEP

   Select one of the following:
      MAC 2311 Calculus with Analytic Geometry I GEP
      MAC 2312 Calculus with Analytic Geometry II GEP
      PHY 2048L Physics Lab for Eng. & Scientists I GEP
   F. Education Courses (9 hrs)
      EDG 4323 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
   G. Diversity Courses (3 hrs)
      ENV 1105 Cultural Diversity GEP

2. Common Program Prerequisites (21 hrs)
   A. Communications (9 hrs)
      ENC 1101 Composition I GEP
      ENC 1102 Composition II GEP
      ENC 1103 Analytical Writing 3 hrs
   B. Humanities (6 hrs)
      PHI 2010 Introduction to Philosophy GEP
      PHI 2011 Philosophy of Art or PHI 2012 Philosophy of Science or PHI 2013 Ethics GEP
   C. Mathematics (10 hrs)
      MAC 1105 College Algebra GEP
      MAC 2311 Calculus with Analytic Geometry I GEP
      MAC 2312 Calculus with Analytic Geometry II GEP
      MAC 2313 Calculus with Analytic Geometry III GEP
      PHY 2048 Physics for Scientists I GEP
      PHY 2048L Physics Lab for Eng. & Scientists I GEP
      PHY 3752C Physics of Scientific Instruments 3 hrs

3. Education Core Requirements (15 hrs)
   A. Professional Training (7 hrs)
      EDG 4323 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
   B. Program Internship I Prerequisites: EDG 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.
   C. Additional requirements listed under College of Education, Office of Clinical Experiences

4. Internship I Block (7 hrs)
   A. Professional Training (7 hrs)
      EDG 4323 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
   B. Students in Schools
      LAE4361 Literacy Strategies for Mid/High School 3 hrs

5. Specialization Requirements (26 hrs)
   A. Science (11 hrs + lab)
      PHY 2048 Physics for Scientists I GEP
      PHY 2048L Physics Lab for Eng. & Scientists I GEP
      PHY 3101 Physics for Engineers & Scientists I 3 hrs
      PHY 3752C Physics of Scientific Instruments 3 hrs
   B. Specialization Electives (12 hrs)
      ESE 4943 Internship II 3 hrs
      SCE 4360 Geology and its Applications 3 hrs
      ESE 4944 Internship III 3 hrs
      SCE 4360 Geology and its Applications 3 hrs

   Select one of the following:
      MAC 2311 Calculus with Analytic Geometry I GEP
      MAC 2312 Calculus with Analytic Geometry II GEP
      MAC 2313 Calculus with Analytic Geometry III GEP
      PHY 2048 Physics for Scientists I GEP
      PHY 2048L Physics Lab for Eng. & Scientists I GEP
      PHY 3752C Physics of Scientific Instruments 3 hrs

6. Restricted Electives (8 hrs)
   A. Specialization Electives (8 hrs)
      SCE 4360 Geology and its Applications 3 hrs
      ESE 4944 Internship III 3 hrs
      SCE 4360 Geology and its Applications 3 hrs

7. Internship II (ESE4943) (12 hrs)
   A. SCE 4360 Geology and its Applications 3 hrs
   B. ESE 4944 Internship III 3 hrs
   C. SCE 4360 Geology and its Applications 3 hrs

Note: See laboratory component under Section 2.
**UCF Degree Programs**

- 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

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

### 9. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

### 10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### 11. Total Semester Hours Required

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

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<tr>
<th>Fall</th>
<th>(12 hrs)</th>
<th>Spring</th>
<th>(16 hrs)</th>
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<tr>
<td>EDF 2005</td>
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<td>AST 2002</td>
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<tr>
<td>ENC 1101</td>
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<td>EDG 2701</td>
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<td>MAC 1105</td>
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<td>ENC 1102</td>
<td>3 hrs</td>
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<td>PSY 2012</td>
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<td>MAC 2311</td>
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<tr>
<td>PHI 2010</td>
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<tr>
<td>POS 2041</td>
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#### Sophomore Year

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<td>AMH 2020</td>
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<td>BSC 2010C w/lab</td>
<td>4 hrs</td>
<td>CHM 2045C</td>
<td>4 hrs</td>
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<td>MAC 2312</td>
<td>4 hrs</td>
<td>ARH 2500 or</td>
<td>3 hrs</td>
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<tr>
<td>SPC 1600</td>
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<td>MUL 2010 or</td>
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#### Junior Year

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<td>CHM 2046L</td>
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<td>LAE 4361</td>
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<td>EDG 4323</td>
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<td>PHY 2049</td>
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<td>PSL 4050</td>
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#### Summer

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#### Senior Year

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<td>ESE 3940</td>
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<td>SCE 4360</td>
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<tr>
<td>PHY 3752C</td>
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**SOCIAL SCIENCES (B.S.)**

**College of Arts and Sciences**

**Liberal Studies Program, CNH 201**

[http://www.cas.ucf.edu/liberal_studies](http://www.cas.ucf.edu/liberal_studies)

E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

The Social Sciences program offers students an opportunity to become acquainted with the various fields of the Social Sciences and to better understand the relationships among those fields. Satisfactory completion of the program leads to the degree Bachelor of Science with a major in Social Sciences.

The program is administered through the Office of Liberal and Interdisciplinary Studies in the College of Arts and Sciences.

### Admission Requirements

- none

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have declared a Social Sciences major at least one semester before graduation.
- Co-op and internship credit cannot be used in this major.
- Independent study forms must be approved by the director prior to taking an independent study for use in the Restricted Elective areas. Non-approved independent studies will not be counted towards the major.
- Students must earn at least a "C" (2.0) in each core requirement and restricted elective course.
- Students should consult with a Liberal Studies advisor when entering the program.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

#### 1. UCF General Education Program (36 hrs)

| A. Communication Foundations | 9 hrs |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | 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

| A. Communication | 3 hrs |
| COM 3311 Communication Research Methods | 3 hrs |
| Select one course | 3 hrs |
| B. Economics | 3 hrs |
| *ECO 2013 Principles of Macroeconomics* | 3 hrs |
| *ECO 2023 Principles of Microeconomics* | 3 hrs |
| C. Political Science | 3 hrs |
| *POS 2041 American National Government* | 3 hrs |
| D. Psychology | 3 hrs |
| *PSY 2012 General Psychology* | 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**

| COM 3311 Communication Research Methods | 3 hrs |
| Select one course | 3 hrs |
| B. Economics | 3 hrs |
| *ECO 2013 Principles of Macroeconomics* | 3 hrs |
| *ECO 2023 Principles of Microeconomics* | 3 hrs |
| C. Political Science | 3 hrs |
| *POS 2041 American National Government* | 3 hrs |
| D. Psychology | 3 hrs |
| *PSY 2012 General Psychology* | 3 hrs |

234 UNIVERSITY OF CENTRAL FLORIDA 2004-2005 Undergraduate Catalog
5. Departmental Exit Requirements
- Maintain a minimum GPA of 2.0 in each of four Social Science disciplines.
- Computer Competency is met by the major.

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation: 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 residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces 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

1. UCF General Education Program (36 hrs)
A. Communication Foundations (9 hrs)
  ENC 1101 Composition I 3 hrs
  ENC 1102 Composition II 3 hrs
  SPCH 1100 Fundamentals of Oral Communication 3 hrs
B. Cultural-Historical Foundations (9 hrs)
  AMH 2010 U.S. History 1492-1877 3 hrs
  AMH 2020 U.S. History 1877-Present 3 hrs
  PHI 2010 Introduction to Philosophy 3 hrs
C. Mathematical Foundations (6 hrs)
  MATH 1305 College Algebra 3 hrs
  Select one:
  - STA 1060C Basic Statistics using MS Excel or STA 2023C Principles of Statistics

2. Common Program Prerequisites (25 hrs)
A. Communications (9 hrs)
  ENC 1101 Composition I 3 hrs
  ENC 1102 Composition II 3 hrs
  SPCH 1100 Fundamentals of Oral Communication 3 hrs
B. Humanities (6 hrs)
  PHI 2010 Introduction to Philosophy 3 hrs
  Select one:
  - ARH 2050 History of Western Art I or ARH 2051 History of Western Art II
  - MUL 2010 Introduction to Music and Music History
  - 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
  Select one:
  - STA 1060C Basic Statistics using MS Excel or
  - STA 2023C Principles of Statistics

D. Social Science/History (12 hrs)
  AMH 2010 U.S. History 1492-1877 3 hrs
  AMH 2020 U.S. History 1877-Present 3 hrs
  POS 2041 American National Government 3 hrs
  Select one:
  - ARH 2050 History of Western Art I or ARH 2051 History of Western Art II or
  - MUL 2010 Introduction to Music and Music History or
  - THE 2000 Theatre Survey or
  - FIL 2400 History of Motion Pictures

E. Science (9 hrs + lab)
  PSC 1121 Physical Science 3 hrs
  Select one:
  - ANT 251L The Human Species or
  - BSC 1005 Biological Principles
  - Select one:
  - ARH 2051 History of Western Art II
  - MUL 2010 Introduction to Music and Music History
  - THE 2000 Theatre Survey or
  - FIL 2400 History of Motion Pictures

F. Education Courses (9 hrs)
  EDH 2055 Introduction to Education 3 hrs
  EDG 2701 Teaching Diverse Populations 3 hrs
  EME 2040 Technology for Educators 3 hrs

G. Diversity Courses (3 hrs)
  Select three courses

H. Other Program Prerequisites (6 hrs)
  SYG 2000 General Sociology 3 hrs
  ECO 2013 Macroeconomics 3 hrs

3. Education Core Requirements (15 hrs)
A. Education Core Requirements (15 hrs)
  EDG 4323 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
  LAE 4361 Literacy Strategies for Mid/High School 3 hrs
UCF Degree Programs

4. Internship I Block (7 hrs)
   SSE 4361 Social Science Instructional Analysis 4 hrs
   ESE 3940 Internship I 3 hrs

   ■ Program Internship I Prerequisites: EDG 4323 and at least 50% of all required social science courses must be completed prior to Internship I with a minimum grade of "C-" in all of these prerequisite courses.
   ■ SSE 4361 should be taken concurrently with ESE 3940
   ■ See additional requirements listed under College of Education, Office of Clinical Experiences

5. Specialization Requirements (27 hrs)
   EUIH 2000 Western Civilization I 3 hrs
   EUIH 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
   GED 4740 World Political Geography 3 hrs
   Upper Division Non-Western History Elective: 3 hrs
   Upper Division Political Science Electives (GEP, IR, or CPO 3/4XXX) 6 hrs
   Upper Division American History Electives (AMH 3/4XXX) 6 hrs

6. Internship II (ESE4943) (12 hrs)
   ■ SSE 4361 and at least 80% of all social science courses must be completed before doing Internship II
   ■ See additional requirements under College of Education, Office of Clinical Experiences
   ■ Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

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 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 Sequence of Program Courses:
    Freshman Year
    Fall (12 hrs) Spring (15 hrs)
    EDF 2005 3 hrs BSC 1005 3 hrs
    ENC 1101 3 hrs EDG 2701 3 hrs
    MGF 1106 3 hrs ENC 1102 3 hrs
    PSY 2012 3 hrs MAC 1105 3 hrs
    Summer (6 hrs) POS 2041 3 hrs
    EME 2040 3 hrs
    SPC 1600 3 hrs

    Sophomore Year
    Fall (16 hrs) Spring (15 hrs)
    AMH 2010 3 hrs AMH 2020 3 hrs

    Junior Year
    Fall (15 hrs) Spring (13 hrs)
    EDF 4214 3 hrs Upper Div Political Sci Elect 3 hrs
    EDG 4323 3 hrs (POS 3/4XXX)
    EUH 2000 3 hrs Upper Div Am Hist Elect 3 hrs
    Upper Div Non-Western Hist Elect 3 hrs (AMH 3/4XXX)
    Upper Div Political Sci Elect 3 hrs (POS 3/4XXX)
    Summer (3 hrs)
    EUH 2001 3 hrs

    Senior Year
    Fall (12 hrs) Spring (12 hrs)
    EDF 4603 3 hrs ESE 4943 3 hrs
    LAE 4361 3 hrs
    TSL 4080 3 hrs
    Upper Div Am Hist Elect 3 hrs (AMH 3/4XXX)

SPECIAL WORK (B.S.W.)
College of Health and Public Affairs
HPA1 204, 407-823-2114
http://www.cohpa.ucf.edu/social/
Director: Mary Van Hook
Undergraduate Program Coordinator: Robin Kohn
E-mail: rkohn@mail.ucf.edu

Admission Requirements - Limited Access
Acceptance to the University does not necessarily constitute admission to the upper division social work program. Separate application to the limited access program must be made to the School of Social Work. Students are admitted to the undergraduate program only in the Summer or Fall terms. To be considered for admission to the program, students must have:

■ Admission to the University
■ A 2.5 overall GPA
■ An AA (from a Florida State Community College) or UCF General Education Program, Gordon Rule, and CLAST
■ 15 semester hours completed of regular scheduled 3000-4000 level courses taken from the UCF School of Social Work
■ Students should complete the General Education Program, the CLAST and the Common Program Prerequisite Requirements before beginning the Social Work Program
■ Students should consult with a school advisor
■ The courses designated in sections 1 (general education) and 2 (common program prerequisites) below may be taken at a college or university other than UCF, and should usually be com-
A minimum overall GPA of 2.5 is required in all Social Work courses with at least a grade of "C-" in each course.

Students must earn an overall GPA of 2.5 for entry into field education (SOW 4510) and graduation from the Social Work Program.

Students must complete all the requirements listed in 1-11 below

1. **UCF General Education Program** (36 hrs)
   - Communication Foundations: 3 hrs
   - Cultural Historical Foundations: 9 hrs
   - Mathematical Foundations: 6 hrs
   - Select MGF 1106 Finite Math
   - Select STA 201LC-Principles of Statistics or STA 2023 Statistical Methods I
   - Social Foundations: 6 hrs
   - Select PSY 2012 and POS 2041
   - Science Foundations: 6 hrs
   - Select a listed science course

2. **Common Program Prerequisites** (15 hrs)
   - POS 2041 American Government
   - BSC 1005 Biology
   - ECO 2013 Microeconomics or Macroeconomics
   - ECO 2023 Microeconomics
   - PSY 2012 Psychology
   - SYG 2000 Sociology

3. **Core Requirements** (45 hrs)
   - SOW 3104 Assessing I: Human Development
   - SOW 3203 Social Welfare and Community Resources
   - SOW 3300 Practice I: Generalist Practice in Social Work
   - SOW 3111 Assessing II: Human Systems
   - SOW 3312 Practice II: Interpersonal Skills in Social Work Practice
   - SOW 3401 Social Work Research
   - SOW 3420 Social Work with Diverse Populations
   - SOW 4730 Documentation in Social Work Practice and Service Programs
   - SOW 4232 Social Welfare Policies and Issues
   - SOW 4341 Micro-level Roles and Interventions in Social Work
   - SOW 4343 Macro-level Roles and Interventions in Social Work
   - SOW 4510 Field Education
   - SOW 4522 Field Education Seminar

4. **Required Social Work Elective** 3 hrs

5. **Required Principles of Statistics** 3 hrs

6. **Electives** (variable)

7. **Foreign Language or Cultural Diversity Requirement**
   - Choose two of the following suggested courses: ANT 3332, ANT 3363, ANT 2410, ANT 3640, ASH 4404, ASH 4442, CPO 4303, HUM 3401, HUM 3417, HUM 3419, JST 3401, JST 3402, JST 3820, LAH 3130, LAH 3200, LAH 3400, LAH 3470, AMH 3561, AMH 3571, AMH 3586, ANT 3302, ANT 3311, ANT 3313, SOP 3724, SOP 3742, SPA 3621, SYD 3700, EDG 2701, HSC 3593C, HUM 2234 or see advisor for more options.

8. **Foreign Language Requirements** (0-8 hrs)
   - Admissions: Two years of one foreign language in high school, or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

9. **Departmental Exit Requirements** (120 hours)
   - A minimum overall GPA of 2.5 with at least a grade of "C-" (1.75) or higher in each social work course.

10. **University Minimum Exit Requirements**
   - A UCF GPA of 2.0
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in 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)

**Related Programs**: Criminal Justice, Psychology, Public Administration, Sociology.

**Aging Studies Certificate**: In recognition of the special needs of the elderly citizens of Florida, the University offers a fifteen-hour interdisciplinary program leading to a Certificate in Aging Studies. The certificate is open to all students in any major.

The program may be of particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education or art education. All students must contact the Coordinator for planning their internship.

**Children’s Services Certificate**: This certificate is open only to students in the undergraduate social work program (BSW). The Children’s Services Certificate is designed to prepare students to work with children and families who are facing issues of abuse or neglect, or are involved in some way with the child welfare system.

Students learn to assess abuse and neglect and to develop appropriate ways to work with the families and elements of the child welfare system. The certificate includes both classroom academic work and a specialized field internship. The program is a joint effort between the Schools of Social Work in Florida and the Department of Children and Families to improve services to children and their families.

**Addictions Certificate**: This certificate is open only to students in the undergraduate social work program (BSW). Addictions courses may be taken as electives by non-majors and be applied to the state certification. The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers.

Addictions have a profound impact on the lives of many people, their families, and their communities. Students will learn about patterns of addictions in society and prevention and intervention strategies. The certificate program includes academic work through courses in social work skills in the area of addictions. The certificate program and/or the addiction specific courses will enable students to earn credit toward their certification through the Certification Board for Addiction Professionals of Florida.

**Related Minors**: Health Services Administration, Aging Studies, Psychology, Sociology.

**Honors in the Major Requirements**
1. Complete a three-credit directed reading course/or a three-credit COHPA1 interdisciplinairy 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**

<table>
<thead>
<tr>
<th>Tentative Course Schedule for Entering Freshmen</th>
<th>15 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>ENC 1101</td>
<td>3</td>
</tr>
<tr>
<td>BSC 1005 or MCB 1310</td>
<td>3</td>
</tr>
<tr>
<td>SYG 2000 or PSY 2012</td>
<td>3</td>
</tr>
<tr>
<td>STA2014C</td>
<td>3</td>
</tr>
<tr>
<td>PAF 2102</td>
<td>3</td>
</tr>
</tbody>
</table>

| Spring                                        |       |
|                                               |       |

| ENC 1102                                      | 3     |
| MGF 1106                                      | 3     |
| PSY 2012 or SYG 2000                          | 3     |
| MUL 2010 or THE 2000                         | 3     |
| REL 2300 or PHI 2010                          | 3     |
| POS 2041                                      | 3     |

UCF Degree Programs
SOW 4431 3 Elective 3
SOW 4343 3 Elective 1
SOW 4341 3 SOW 4522 3
SOW 4232 3 SOW 4510 3

Fall                               15 hrs Spring                                  16 hrs
Senior Year

SOW Elective 3 SOW 3420 3
SOW 3300 3 SOW 3401 3
SOW 3203 3 SOW 3352 3
SOW Elective 3 SOW 3420 3

Fall                               15 hrs Spring                                  15 hrs
Junior Year

Foreign Lang I or Cult Diversity 3/4 HUM 2230
Elective 3 EUH 2001

Fall                               15 hrs Spring                                  15 hrs

Sociology curriculum emphasizes critical examination of various components of society. The purpose of the curriculum is to increase students' social awareness and their ability to employ a sociological perspective to interpret social institutions and behavior.

Admission Requirements                none
Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 30 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Sociology and Anthropology Department.
- Students must maintain a UCF GPA of at least 2.0 in all courses used for the major.
- Students must have a “C” (2.0) or higher in all core courses.
- Co-op 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
   - Select MAC 1105 College Algebra (or higher) 3 hrs
   - Select STA 2014C Principles of Statistics 3 hrs
   D. Social Foundations
   - Select one: ECO 2013, ECO 2023, POS 2041 3 hrs
   - Select SYG 2000 General Sociology 3 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites (variable)
   (It is suggested that transfer students complete two lower-level courses with the prefix SYA, SYD, SYG, SYO, or SYP.)

3. Core requirements (18 hrs)
   - 2000 General Sociology GEP
   - SYG 2010 Social Problems 3 hrs
   - 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:
   SYA 3120 Modern Sociological Thought
   SYA 4650C Applied Sociology
   SYA 5525 Prospective
   SYA 5937 Advanced Population
   SYD 3410 Urban Sociology
   SYD 3700 Race & Ethnic Minorities in the US
   SYD 3800 Sex Roles in Modern Society
   SYD 4020 Population
   SYG 2000 General Sociology
   SYG 2010 Social Problems
   SYO 3000 Modern Sociology
   SYO 3360 Social Organization & Human Relations
   SYO 3410 Sociology of Mental Illness
   SYO 3530 Social Stratification
   SYO 4100 Family Trends
   SYO 4200 Sociology of Religion
   SYO 4250 Sociology of Education
   SYO 4300 Political Sociology
   SYO 4400 Medical Sociology
   SYP 3900 Collective Behavior
   SYP 3400 Social Change
   SYP 3510 Sociology of Deviant Behavior
   SYP 3511 Sociology of Murder
   SYP 3520 Criminology
   SYP 3530 Juvenile Delinquency
   SYP 3540 Sociology of Law
   SYP 3551 Sociology of Alcoholism
   SYP 3562 Socio Perspective on Domestic Violence
   SYP 3602 Sociology of Popular Music
   SYP 3630 Sociology of Popular Culture
   SYP 3650 Sociology of Sport
   SYP 4000 Sociological Social Psychology
   SYP 4004 Constructing Social Issues
   SYP 4323 Social Systems and Diversity
   SYD 4510 Environmental Sociology
   SYP 4514 Sociology of Violence
   SYP 4521 Criminal Victimization in Society
   SYP 4536 Gangs and Society
   SYP 4550 Sociology of Drug Abuse
   SYP 4730 Sociology of Aging
   SYP 4734 Minority Aging
   SYD 4810 Women in Contemporary Society
   SYD 4813 Women and Social Diversity
   SYP 5525 Sociological Criminology
   SYP 5564 Seminar on Domestic Violence

5. Departmental Exit Requirements
   - A minimum of “C” (2.0) in all core courses.
   - 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 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.
   In addition, either a third semester/proficiency or an approved enhancement course. A list of approved enhancement courses is available from the department.

7. Electives (variable)
   Select primarily from upper level courses, with departmental advisor's approval. These courses may be outside of the department.

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP,
**UCF Degree Programs**

Credit by Exam, and Armed Forces 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**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>ENC 1102 Composition II</td>
</tr>
<tr>
<td>MAC 1105 College Algebra</td>
<td>STA 2014C Prin of Statistics</td>
</tr>
<tr>
<td>SYG 2000 General Sociology</td>
<td>SYC 2010 Social Problems</td>
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<tr>
<td>SPN 1120 req Lang/Elec</td>
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<td>SPN 1121* req Lang/Elec</td>
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**Sophomore Year**

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<tbody>
<tr>
<td>ANT 2511* req 1E2-CEP</td>
<td>COM 3000* req 1A3-CEP</td>
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<tr>
<td>EUH 3001* req 1B1-CEP</td>
<td>REL 2300* req 1B2-CEP</td>
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<td>SYD 3700* req 4-ResElec</td>
<td>SYA 3300 Research Methods 4</td>
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<td>Elective* Check restrictions</td>
<td>SYD 3800* req 4-ResElec 3</td>
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**Junior Year**

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<th>Spring</th>
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<tbody>
<tr>
<td>POS 2041* req 1D1-CEP</td>
<td>PHI 2010* req 1B3-CEP</td>
</tr>
<tr>
<td>PSC 1121* req 1E1-CEP</td>
<td>SYA 3110 The Dev of Soc Tht</td>
</tr>
<tr>
<td>SYA 3400 Res Methods Stat</td>
<td>SYA 4450 Data Analysis 4</td>
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<td>SYD 3410* req 4-ResElec</td>
<td>SYD 4100* req 4-ResElec 3</td>
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<td>Elective* Check restrictions 3</td>
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**Senior Year**

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<tr>
<td>SYA 3120* req 4-ResElec</td>
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<td>SYO 3520* req 4-ResElec</td>
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<tr>
<td>Elective* Check restrictions</td>
<td>Elective* Check restrictions 3</td>
</tr>
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</table>

**SPANISH (B.A.)**

**College of Arts and Sciences**

**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** (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)
   - STA 1060C Statistics Using Excel 3 hrs
   - Prefer STA 1060C Statistics Using Excel 3 hrs
   - D. Social Foundations 6 hrs
   - E. Science Foundations 6 hrs

2. **Common Program Prerequisites** (0-14 hrs)
   - SPN 1120* Elem Spanish Lang & Civ I 4 hrs
   - SPN 1121* Elem Spanish Lang & Civ II 4 hrs
   - SPN 2230* Intern Spanish Lang & Civ I 3 hrs
   - SPN 2231* Intern Spanish Lang & Civ II 3 hrs
   * May be met by proficiency test or completion of SPN 2231

3. **Core requirements** (15 hrs)
   - SPN 3300* Adv Spanish Gram and Comp 3 hrs
   - SPN 3420* Spanish Composition 3 hrs
   - SPN 3760* Adv Spanish Oral Comm 3 hrs
   - SPN 3100 & 3101 Survey of Spanish Literature 6 hrs
   - or
   - SPN 3130 & 3131 Survey of Latin-American Literature 6 hrs
   * A native or near-native Spanish speaker must substitute an alternate upper division Spanish course in consultation with a departmental advisor.

4. **Upper Division Restricted Electives** (21 hrs)
   - a. Select one of the following 3 hrs
     - FOL 3730 Romance Philology
     - SPN 4801 Spanish Morphosyntax
     - SPN 4800 Spanish American Syntax
     - SPN 4780 Spanish Phonetics
     - SPN 3852 Bilinguismo
   - b. Spanish literature beyond the survey level (taught in Spanish) 6 hrs
   - c. Culture and Civilization 3 hrs
     - SPN 4510 Spanish Civ & Culture or
     - SPN 4520 Latin American Civ & Culture
   - d. Spanish courses 9 hrs

5. **Departmental Exit Requirements**
   - Earn a grade of “C” (2.0) or higher in at least 36 hours of upper division Spanish courses
   - Students are required to satisfactorily complete a departmental exit exam. The exam is offered each September and February; students should discuss the optimal test date with their advisor.
   - Computer Competency met by CGS 1060C or equivalent

6. **Foreign Language Requirements** (0-16 hrs)
   - Admission: Met by Graduation requirements.
   - Graduation: Met by Common Program Prerequisites.

7. **Electives** (variable)
   - Select primarily from upper level courses, with departmental advi-
8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: French, Modern Language Combination
Related Minors: French, Italian, Judaic Studies, Latin American and Iberian Area Studies, Russian Area Studies, Spanish

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated by the department chair for equivalency credit. The student must provide all supporting information.
- Native speakers, or students who have received advanced education in Spanish-speaking societies, may not take lower division Spanish courses. They must substitute Third-year level composition and conversation courses.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year
Fall
- ANT 2000* req# 1D2-GEP
- ENC 1101 Composition I
- MGF 1106* req# 1C2-GEP
- SPN 1120* req# 2-CPP
- Elective* Check restrictions

Spring
- ENC 1102 Composition II
- STA 1060C* req# 1C2-GEP
- SPN 1121* req# 2-CPP
- Elective* Check restrictions

Sophomore Year
Fall
- AMH 2010* req# 1B1-GEP
- ARH 2050* req# 1B3-GEP
- POS 2041* req# 1D1-GEP
- PSP 2200* req# 1E1-GEP
- SPN 2230* req# 2-CPP

Elective* Check restrictions

Junior Year
Fall
- SPN 3300 Adv Spa Gram Comp
- SPN 3420 Spanish Comp
- SPN 3760 Adv Spa Oral Com
- Elective* Check restrictions

Spring
- SPN 3101* req# 3-Core
- SPA 3030C
- SPN 3141* req# 4D-ResElec
- Elective* Check restrictions

Senior Year
Fall
- SPW 3100* req# 3-Core
- SPN 4520* req# 4C-ResElec
- SPN 5705* req# 4D-ResElec
- Elective* Check restrictions

Spring
- SPW 3131* req# 4b-ResElec
- SPW 4381* req# 4b-ResElec
- SPN 4410* req# 4D-ResElec
- Elective* Check restrictions

SPORTS AND FITNESS (B.S.)
College of Education
Department of Teaching and Learning Principles, ED209
http://pegasus.cc.ucf.edu/~sportfit/
Program Coordinator: Dr. Michael Kehoe
UCF at South Lake, Bldg 2, Room 316, 352-536-2179
E-mail: mkehoe@mail.ucf.edu

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.
- Students who change degree programs and select this major must adopt the most current catalog.
- Students should see an advisor prior to selecting this major, and at least annually thereafter.
- Students must earn at least a "C-" (1.75) in each required course and maintain an overall GPA of at least 2.0.
- Prior to participation in Sports and Fitness Practicum I and Practicum II listed below, students must have achieved admission into one of the areas of specialization listed and described below.
- Students must meet with their advisor prior to enrollment in Sports and Fitness Practicum I and Practicum II to complete departmental approval process of the organization with which they will be working.

1. UCF General Education Program 36 Hours
A. Communication Foundations
- ENC 1101 Composition I (3 hrs)
- ENC 1102 Composition II (3 hrs)
- PSC 1600 Fundamentals of Oral Comm (3 hrs)
B. Cultural-Historical Foundations
- AMH 2010 U.S. History 1492-1877 (3 hrs)
- AMH 2020 U.S. History 1877-Present (3 hrs)
- PHI 2010 Introduction to Philosophy (3 hrs)
C. Mathematical Foundations
- MGF 1106 Finite Mathematics (3 hrs)
- Select one:
  - STA 1060C Basic Stat using Microsoft Excel
  - STA 2014C Principles of Statistics (3 hrs)
D. Social Foundations
- POS 2041 American National Government (3 hrs)
- PSY 2010 Human Growth and Development (3 hrs)
E. Science Foundations
- PSC 1121 Physical Science (3 hrs)

2. Sports and Fitness Lower Division
- PET 2622C Human Injuries (3 hrs)
- ZOO 3736C Exercise Physiology Anatomy (4 hrs)

3. Lower Division Electives
Selected Electives (Prefixes: PEL, PEM, PEO, PET) (7 Hours)

4. Sports & Fitness Core
- PET 3137 Concepts and Practices in Sports and Fitness (3 hrs)
- PET 3408 Public Relations in Sports and Fitness (3 hrs)
- PET 3462 Fiscal and Facilities Issues in Sports and Fitness (3 hrs)
- PET 3483 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 4650 Fitness Assessment and Exercise (3 hrs)

5. Specialization
Select One Option:
Option A: Coaching
- PET 3765 Coaching Theory (3 hrs)
- PET 4763 Coaching Methods and Principles (3 hrs)
- PET 4625 Human Injuries - Mechanisms and Prevention (3 hrs)
Coaching Specific (choose one) (3 hrs)
PET 2624 Coaching Basketball
PET 3324 Coaching Volleyball
PET 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

PET 3361 Nutrition for Sports and Fitness 3 hrs
PET 3776 Fitness and Conditioning Concepts 3 hrs
PET 4083C Practical Fitness Training 3 hrs
PET 4625 Human Injuries - Mechanisms and Prevention 3 hrs

Students selecting the Fitness Specialization must register for a Professional Fitness Certification through the American Council on Exercise (ACE) or an equivalent professional certifying body.

6. Upper Division Elective (3 hours)

Approved by advisor

7. Sports & Fitness Practica (18 Hours)

PET 4925 Sports and Fitness Practicum I 6 Hours
PET 4926 Sports and Fitness Practicum II 12 Hours

During the final year of the program, students will complete Practicum requirements with a Sports or Fitness organization. These experiences will provide the student with actual professional experiences and practical hands-on knowledge of the career in which they have chosen to work. The design of Practicum I will be that of an observational and analytical role. During Practicum II, the student will be given responsibilities and assignments through the organization in which they have been placed and will carry an active role in the operation of the organization.

In both Practicum I and Practicum II, the student will be working directly with a Placement Coordinator in the organization and their University Supervisor. The University Supervisor will maintain periodic contact with the Placement Coordinator to check performance status. The Sports and Fitness program has developed tremendous opportunities through associations with partners in the Clermont and greater Orlando areas. Students will not be limited to these organizations. Students will have the option to arrange their own practicum experience if they so choose. In either case, before enrolling in either Practicum I or Practicum II, students must meet with their advisor to provide organization contact information and gain Practicum Placement Approval.

The students will be instructed that they will be representing not only themselves while on site during their Practicum experiences, but also the University of Central Florida and the Sports and Fitness Program. Professionalism in manner, dress and job performance will be expected at all times. Should there be any question of the performance of the student 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 student may be removed from their Practicum experience.

8. Foreign Language (0-8 hours)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

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 hours)

11. Recommended Four-Year Sequence of Courses

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<tr>
<th>Freshman Year</th>
<th>Fall (12 hrs)</th>
<th>Spring (16 hrs)</th>
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<tbody>
<tr>
<td>CGS 2020</td>
<td>3 hrs</td>
<td>ENC 1101 3 hrs</td>
</tr>
<tr>
<td>EME 2040</td>
<td>4 hrs</td>
<td>ENC 1102 3 hrs</td>
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<tr>
<td>PSC 1121</td>
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<td>MGF 1106 3 hrs</td>
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<tr>
<td>PSY 2012</td>
<td>3 hrs</td>
<td>STA 1060C 3 hrs</td>
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<tr>
<td>ZOO 3736C</td>
<td>4 hrs</td>
<td>STA 2014C 3 hrs</td>
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<tr>
<td>Specialization</td>
<td>Specialization</td>
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<tr>
<td>PET 3776</td>
<td>3 hrs</td>
<td>PET 3776 3 hrs</td>
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<tr>
<td>or</td>
<td>or</td>
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<tr>
<td>PET 4926C</td>
<td>3 hrs</td>
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<th>Junior Year</th>
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<tr>
<td>PET 3137</td>
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<td>PET 3408 3 hrs</td>
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<td>PET 4401</td>
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<td>PET 4312 3 hrs</td>
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<td>PET 4550</td>
<td>3 hrs</td>
<td>PET 4491 3 hrs</td>
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<tr>
<td>Specialization</td>
<td>Specialization</td>
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<tr>
<td>Option A (Coaching):</td>
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<td>PET 4763 3 hrs</td>
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<td>or</td>
<td>or</td>
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<tr>
<td>Option B (Fitness):</td>
<td>3 hrs</td>
<td>PET 3361 3 hrs</td>
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<th>Senior Year</th>
<th>Fall (12 or 15 hrs)</th>
<th>Spring (12 or 15 hrs)</th>
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<tbody>
<tr>
<td>PET 3462</td>
<td>3 hrs</td>
<td>PET 4083C 3 hrs</td>
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<td>PET 4625</td>
<td>6 hrs</td>
<td>PET 4083C 3 hrs</td>
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<tr>
<td>Option A (Coaching):</td>
<td>3 hrs</td>
<td>PET 3765 3 hrs</td>
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</table>

Statistics (B.S.)

College of Arts and 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 (39 hrs)
   - Communication Foundations: 9 hrs
   - Cultural and Historical Foundations: 9 hrs
   - Mathematical Foundations: 7 hrs
     - Select MAC 2311 Calculus I: 4 hrs
     - Select STA 2023 Statistical Methods I: 3 hrs
   - Social Foundations: 6 hrs
   - Science Foundations:
     - Select BSC 2010C Biology I: 4 hrs
     - Select PHY 2053C College Physics or CHM 2045C Chemistry Fundamentals I: 4 hrs

2. Common Program Prerequisites (7 hrs)
   - COP 3502C: Computer Science I: 3 hrs
   - MAC 2311: Calculus with Analy Geo I: GEP
   - MAC 2312: Calculus with Analy Geo II: 4 hrs
   - BSC 2010C*: Biology I: GEP
   *See Transfer Notes for possible substitutes

3. Core requirements (51 hrs)
   - STA 2023: Statistical Methods I: GEP
   - STA 4102: Computer Process of Stat Data: 3 hrs
   - STA 4163: Statistical Methods II: 3 hrs
   - STA 4164: Statistical Methods III: 3 hrs
   - STA 4321: Statistical Theory I: 3 hrs
   - STA 4322: Statistical Theory II: 3 hrs
   - COT 4500: Numerical Calculus: 3 hrs
   - MAC 2313: Calculus with Analy Geo III: 4 hrs
   - ENC 3241: Writing for the Tech Professional: 3 hrs
   - COP 3223: Intro to Programming in C*: 3 hrs
   *may substitute an approved programming language course
   a. Select one course: 4 hrs
   - MAS 3106: Linear Algebra
   - MAS 3105: Linear and Matrix Algebra
   b. Select one course: 3 hrs
   - COP 3100C*: Introduction to Discrete Structure
   - MTH 3302: Logic and Proof in Mathematics
   c. Select three from among the following: 9 hrs
   - STA 3096: Statistical Graphics
   - STA 4173: Biostatistical Methods
   - STA 4222: Sample Survey Methods
   - STA 4502: Nonparametric Stat Methods
   - STA 4504: Categorical Data Analysis
   - STA 4604: Statistical Quality Control
   - STA 4852: Applied Time Series
   d. Select two courses and associated labs (incl. 4 hrs GEP): 4 hrs
   - BSC 2011C: Biology II
   - CHM 2046 & L: Chemistry Fundamentals II
   - PHY 2053C: College Physics I
   - PHY 2054C: College Physics II
   e. Select one course: 3 hrs
   - Select any science course from the College of Arts & Sciences or any 3000-4000 level science course from either the College of Health & Public Affairs or the Burnett College of Biomedical Sciences

4. Restricted Electives (6 hrs)
   - Select from upper division or graduate statistics (e.g., STA 5205, STA 5825), mathematics, or computer science courses
   - Selected courses in engineering or business may be used but must first be approved by the Statistics Department
   - MAC 2233, MAC 2253, MAC 2254, all MAE courses, and MTHF 4404 may not be used

5. Departmental Exit Requirements
   - Earn a grade of “C” (2.0) or better in each STA course
   - Computer Competency met by STA 4102

6. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

7. Electives (variable)
   Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed (Note: Statistics majors may count MAC 2313 as upper division credit.)
   - 30 of the last 36 hours of course work must be completed in 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: Mathematics, Mathematics Education, Actuarial Science Track
Related Minors: Statistics, Mathematics
Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes: for common program prerequisites if taken prior to transferring to UCF:
- COP 3502C: any COP programming language course. However, COP 3502C is a prerequisite for Computer Sciences courses and may need to be taken.
- BSC 2010C: any laboratory BSC, CHM, or PHY course. However this is a prerequisite for BSC 2011C and will need to be taken.

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: BSC 2010C Biology I
   - Spring: ENC 1102 Composition I

Sophomore Year
   - Fall: AMH 2010* req# 1B1-GEP
   - Spring: COP 3223 Intro to Prog C

Junior Year
   - Fall: STA 4130* req# 3c-Core
   - Spring: STA 4102 Comp Oroc of Stat Data

Senior Year
   - Fall: COP 3502C Computer Science I
   - Spring: STA 4222 Stat Theory I

See Actuarial Science (B.S.)

Degree Requirements

Students should see an advisor

Track 1: For students in adult Technical Education and Industry Training. This track does not lead to teacher certification at the state level.

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)
   MGF 1106 Finite Mathematics 3 hrs
   STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics 3 hrs
   C. Mathematical Foundations (6 hrs)
      STA 2014C Principles of Statistics 3 hrs
   D. Social Foundations (6 hrs)
      STA 2014C Principles of Statistics 3 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 3569 Gen Method/Test Eval 3 hrs
   EVT 3062 Professional Role Voc Ed Teacher 3 hrs
   EVT 3312 Course Const Health Occ Ed or EVT 3315 3 hrs
   EVT 3371 Course Const Industrial Ed 3 hrs
   EVT 3502 Special Needs Voc Ed Students 3 hrs
   EVT 4065 Principles of Voc Ed 3 hrs
   EVT 4398 Adv Teaching/Techniques in Voc Ed 3 hrs
   EVT 3367 Eval Vocation Training 3 hrs
   EVT 4169 Curr Dev of Ind Training 3 hrs
   ABE 4382 Teaching Adult Learners 3 hrs

4. Occupational Specialization Requirements (30 hrs)
   Students must complete an area of specialization through one of the following routes:
   • Occupation-specific courses
   • Recognized occupational license/registration/certification
   • Occupational examination
   • Sufficient documentation demonstrating comparable occupational expertise equivalent to 30 semester hours of credit.

   Appropriate documentation must be provided to advisor before this will be submitted for credit.

5. Upper Division Electives (6 hrs)
   (with advisor’s approval)

6. Directed Field Experience (12 hrs)
   • The Occupational Specialization must be satisfied and all courses must be completed prior to registering, through your advisor, for the Directed Field Experience.

7. Foreign Language Requirements (0-8 hrs)
   • State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

8. Departmental Exit Requirements
   • Achieve a minimum 2.5 GPA in all courses within the major.

9. Recommended Sequence of Program Courses for Track 1:

   Freshman Year
   Fall (15 hrs)
   ENC 1101 3 hrs
   MGF 1106 3 hrs
   EVT 3062 or EVT 3367 3 hrs
   EVT 3502 3 hrs

   Summer (6 hrs)
   EDF 2005 or EVT 3465 3 hrs
   EVT 3312 or EVT 3371 3 hrs

   Sophomore Year
   Fall (12 or 16 hrs)
   EVT 3062 3 hrs
   EVT 3367 3 hrs
   EVT 4065 3 hrs
   EVT 4169 3 hrs

   Spring (15 hrs)
   EVT 3062 3 hrs
   EVT 3367 3 hrs
   EVT 4065 3 hrs
   EVT 4169 3 hrs

   Junior Year
   Fall (15 hrs)
   EVT 3365 3 hrs
   EVT 3371 3 hrs
   EVT 4065 3 hrs

   Spring (15 hrs)
   EVT 3062 3 hrs
   EVT 3367 3 hrs
   EVT 4065 3 hrs
   EVT 4169 3 hrs

   Senior Year
   Fall (12 hrs)

   EVT 3365 3 hrs
   EVT 3371 3 hrs
   EVT 4065 3 hrs
   EVT 4169 3 hrs
UCF Degree Programs

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

Track 2: Though not a state-approved teacher education program, this track is designed for students seeking state level certification from the Florida Department of Education in Business Education (grades 6-12).

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
      ENC 1101 Composition I  3 hrs
      ENC 1102 Composition II  3 hrs
      SPC 1600 Fundamentals of Oral Communication  3 hrs
   B. Cultural-Historical Foundations (9 hrs)
      AMH 2010 U.S. History 1492-1877  3 hrs
      AMH 2020 U.S. History 1877-Present  3 hrs
      PHI 1010 Introduction to Philosophy  3 hrs
   C. Mathematical Foundations (6 hrs)
      STA 1060C Basic Statistics using MS Excel or
      STA 2014C Principles of Statistics  3 hrs
   D. Social Foundations (6 hrs)
      ECO 2013 Macroeconomics  3 hrs
      PSY 2012 General Psychology  3 hrs
   E. Science Foundations (6 hrs)
      PSC 1121 Physical Science  3 hrs
      Select one:  3 hrs
      AN 2511 The Human Species or
      BSC 1005 Biological Principles
   Note: See laboratory component under Section 2.

2. Common Program Prerequisites (31 hrs)
   A. Communications (9 hrs)
      ENC 1101 Composition I  GEP
      ENC 1102 Composition II  GEP
      SPC 1600 Fundamentals of Oral Communication  GEP
   B. Humanities (6 hrs)
      PHI 1010 Introduction to Philosophy  GEP
      Select one:  3 hrs
      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
   C. Mathematics (9 hrs)
      MAC 1105 College Algebra  3 hrs
      MGF 1106 Finite Mathematics  GEP
      One of the following [per GEP]  GEP
      STA 1060C Basic Statistics using MS Excel or
      STA 2014C Principles of Statistics  GEP
   D. Social Science/History (12 hrs)
      AMH 2010 U.S. History 1492-1877  GEP
      AMH 2020 U.S. History 1877-Present  GEP
      ECO 2013 Macroeconomics  GEP
      PSY 2012 General Psychology  GEP
   E. Science (9 hrs + lab)
      One of the following [per GEP]  GEP
      AN 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  1 hr
      Select one associated science lab:  1 hr
      BSC 1005L Biological Principles Laboratory
      PSC 1121L Physical Science Laboratory
   F. Education Courses (9 hrs)
      EDF 2005 Introduction to Education  3 hrs
      EDG 2701 Teaching Diverse Populations  3 hrs
      EME 2940 Technology for Educators  3 hrs
   G. Diversity Courses (6 hrs)
   H. Other Program Prerequisites (15 hrs)
      ACG 2021 Principles of Financial Accounting  6 hrs
      ACC 3701 Principles of Managerial Accounting  6 hrs
      ECO 2013 Macroeconomics  GEP
      ECO 2023 Microeconomics  3 hrs
      Selective in Business Administration (see advisor)  3 hrs
3. Education Core Requirements (12 hrs)

4. Program Core Requirements (21 hrs)
   EVT 3365 Gen Method/Test Eval  3 hrs
   EVT 3962 Professional Role Voc Ed Teacher  3 hrs
   BTE 4410 Course Construction in Business Ed  3 hrs
   EVT 3502 Special Needs Voc Ed Students  3 hrs
   EVT 4065 Prin/Prac Voc Ed  3 hrs
   EVT 4368 Adv Teaching/Techniques in Voc Ed  3 hrs
   EVT 3867 Eval Vocation Instruction  3 hrs

5. Occupational Specialization Requirements (15 hrs)
   Total occupational specialization requirement is 30 SH, 15 of which are met by courses selected under section H of common program prerequisites. An additional 15 SH of upper level courses are required to fulfill this requirement. See advisor.

6. Directed Field Experience (12 hrs)
   Occupational specialization and all course requirements must be completed before directed field experience

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 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 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 (Track 2) 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 Sequence of Program Courses for Track 2:
    Freshman Year
    Fall (12 hrs)  Spring (6 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 Middle and High School  3 hrs

    Sophomore Year
    Fall (15 hrs)  Spring (5 hrs)
    AMH 2010  3 hrs  ACG 2021  3 hrs
    BSC 1005  3 hrs  AMH 2020  3 hrs

244 UNIVERSITY OF CENTRAL FLORIDA 2005-2006 Undergraduate Catalog
**THEATRE STUDIES (B.A.)**

**College of Arts and Sciences**

**Department of Theatre, UTC 180; 407-823-2862**

http://www.theatre.ucf.edu

E-mail: ktollefs@mail.ucf.edu

Kristina Tollefson, 407-823-0233

E-mail: ktollefs@mail.ucf.edu

http://www.theatre.ucf.edu

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, and transcripts of previous college work at the time of interview.

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must maintain a minimum "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 theatre students must participate, in some capacity, in one of the main-stage productions during a minimum of four semesters. Students failing to successfully participate will be placed on probation for one semester. Continued failure may result in being dropped 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 9 hrs
B. Cultural and Historical Foundations 9 hrs
Select one course from 1.B.1 list 3 hrs
Select THE 2020 Survey of Theatre for Majors 3 hrs
Select one course from 1.B.1 or 1.B.2 list 3 hrs
C. Mathematical Foundations 6 hrs
Select MGF 1106 Finite Mathematics 3 hrs
(may substitute a higher level math)
Select STA 1060C Statistics Using Excel 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

**2. Common Program Prerequisites** (9 hrs)

THE 2020* Survey of Theatre for majors 3 hrs
THE 2XX** Script Analysis 3 hrs
THE 2290* Theatre Production/Perform I 1 hr
TPP 3290* Technical Theatre Production 3 hrs
TPP 2190* Theatre Production/Perform I 1 hr
See Transfer Notes for possible substitutes

**3. Core requirements** (18 hrs)

THE 3110 Theatre History I 3 hrs
THE 3111 Theatre History II 3 hrs
THE 3305 Dramatic Literature I 3 hrs
THE 3306 Dramatic Literature II 3 hrs
TPP 2101 Fundamentals of Acting 3 hrs
TPP 3310C Directing I 3 hrs

**4. Restricted Electives** (16 hrs)

Select 16 hours from the following
THE 2271 Performance Studies 3 hrs
THE 3230 Commonality within Cultural Diversity 3 hrs
Experience through Theater 3 hrs
THE 3082 Theatre Careers 3 hrs
THE 3240 Musical Theatre Survey 3 hrs
THE 4093 Theatre Production/Perf IV 1 hr
THE 4094 Theatre Production/Perf V 1 hr
THE 4096 Theatre Production/Perf VI 1 hr
THE 4097 Theatre Production/Perf VII 1 hr
THE 4372 Drama of Tennessee Williams 3 hrs
THE 5307 Contemporary Theatre Practice 3 hrs
TPA 2248C Makeup/Technique 2 hrs
TPA 3043C Costume History I 3 hrs
TPA 4044C Costume History II 3 hrs
TPA 3195 Theatre Studio/Tech/Design 3 hrs
TPA 3197 Summer Theatre Studio/Tech/Design 3 hrs
TPA 3001* Stage Management 3 hrs
TPP 4400 Theatre Management 3 hrs
TPP 3103 Intermediate Acting 3 hrs
TPP 3197 Summer Theatre/Performance 3 hrs
TPP 3952 Studio Performance 3 hrs
TPP 4331* Advanced Directing 3 hrs
TPP 3515 Senior Directing 3 hrs
TPP 3601* Senior Project 3 hrs
Any DAA courses with instructor and departmental approval 2-8 hrs
THE 3930* Independent Study 1-9 hrs
THE 4912* Undergraduate Research 1-6 hrs
TPP 4331* Advanced Directing 3 hrs
Honors in the Major Directed Readings and Thesis* 3-6 hrs
Other THE, TPA, or TPP courses as approved by the department* requires instructor and departmental approval in advance

**5. Departmental Exit Requirements**

- Earn a grade of "C" (2.0) or better in each Theatre course
- Take a Departmental Exit Examination and write a critique of a UCF affiliated theatre production
- Computer Competency met by STA 1060C
- 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. 2XXX (Script Analysis): may use THE 2300 or THE 3305
- THE 2090: may use THE 2925
- THEA 2290: may use THEA 1290
- TPA 2210: may use TPA 1110
- TPA 2211: may use TPA 2200 or TPA 2210

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>
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<tr>
<td>ENC 1101 Composition I</td>
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<tr>
<td>MGF 1106* req# 1C1-GEP</td>
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<td>THE 2020 Sur of The for Maj</td>
<td>THE 2300* req# 4-ResElect</td>
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<tr>
<td>THE 2XXX Script Analysis</td>
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Sophomore Year

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<td>PSC 1121* req# 1E1-GEP</td>
<td>THE 3306 Dramatic Lit II</td>
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<tr>
<td>THE 2020 The Prod Perf I</td>
<td>Minor* req# 7-Minor</td>
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<tr>
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Junior Year

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<td>Minor* req# 7-Minor</td>
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<tr>
<td>THE 2271* req# 4-ResElect</td>
<td>Elective* Check restrictions</td>
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<td>THE 3082* req# 4-ResElect</td>
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Senior Year

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<td>THE 4372* req# 4-ResElect</td>
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<td>THE 4093* req# 4-ResElect</td>
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<td>SPN 1120* req# Lang/Elect</td>
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THEATRE B.F.A.

College of Arts and Sciences

Department of Theatre, UTC 180; 407-823-2862
http://www.theatre.ucf.edu
E-mail: ktollefs@mail.ucf.edu
Kristina Tollefson, 407-823-0233

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/tech. 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 Chair.
- The departmental faculty evaluates students desiring to become majors via an interview, audition, or portfolio review. For complete information, contact the Department of Theatre or visit the audition site online at http://www.theatre.ucf.edu.
- An Acting candidate must be interviewed and perform two monologues of contrasting styles limited to a combined time of 3 minutes. See www.theatre.ucf.edu for details and to schedule an appointment.
- Design/tech 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. Three-dimensional pieces should be submitted in photo format. For details, contact the Department of Theatre or visit the audition site online at www.theatre.ucf.edu.
- 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 maintain a minimum “B” (3.0) overall Theatre GPA to continue in the major.
- Theatre grades of less than “C” (2.0) will not be counted
- Continuation in the BFA program requires a positive annual evaluation
- Co-op 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

- All BFA students should participate, in some capacity, on two UCF affiliated productions during both Fall and Spring semesters. Students failing to successfully participate will be placed on probation for one semester. Continued failure will result in being dropped as a major.
- All BFA students must include a participation credit course during every semester.
- 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. It is not designed for transfer students. Transfer students may audition and be admitted, but they should consult with the 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 strongly encouraged to take ARH 2050 and ARH 2051 as electives as early in their career as possible.
- 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 B.B. list
   - Select THE 2020 Survey of Theatre for Majors
   - Select ARH 2051 History of Western Art II
   - Select STA 1060C Statistics Using Excel (may substitute a higher level math)
   - Select STA 1060C Statistics Using Excel

B. Cultural and Historical Foundations
   - THE 2020* Survey of Theatre for majors
   - THE XXX* Script Analysis
   - THE 2090* Theatre Production/Performance I
   - TPA 2290 Theatre Production/Performance I
   - TPA 2210* Stagecraft I
   - TPP 2190* Theatre Production/Performance I
   - TPP 2210* Stagecraft I

C. Mathematical Foundations
   - Select MGF 1106 Finite Mathematics
   - Select STA 1060C Statistics Using Excel
   - Select STA 1060C Statistics Using Excel

D. Social Foundations
   - Select THE 2020* Survey of Theatre for majors
   - Select THE XXX* Script Analysis
   - Select THE 2090* Theatre Production/Performance I

E. Science Foundations 6 hrs

2. Common Program Prerequisites (9 hrs)

- THE 2020* Survey of Theatre for majors
- THE XXX* Script Analysis
- THE 2090* Theatre Production/Performance I
- TPA 2290 Theatre Production/Performance I
- TPA 2210* Stagecraft I
- TPP 2190* Theatre Production/Performance I

*See Transfer Notes for possible substitutes

3. Core Requirements (18 hrs)

- TTP 2100C Acting I - Introduction
- TTP 2100C Acting II - Fundamentals
- THE 3230 Musical Theatre Survey
- THE 3300C Musical Theatre II
- THE 3110 Theatre History I
- THE 3111 Theatre History I
- TPP 3310C Directing I
- TPA 2210 Stagecraft I

4A. Specialization: select one area (66 hrs)

Acting Specialization

- TTP 2100C Acting I - Fundamentals
- TTP 2710C Voice Production I
- TPP 2170C Acting III - Characterization
- TPR 4191 Thea. Prod./Perf. I
- TPR 4194 Thea. Prod./Perf. V
- DAA 2200C Ballet I
- THE 5512C Stage Combat
- TPR 5257 Music Tha. Voice I
- TPR 3258 Musical Theatre Voice II
- TPR 3711C Voice Production II
- TPR 3712C Voice Production III
- TPR 3703C Voice Production IV
- TPR 4140C Acting IV - Studio
- TPR 4142C Acting V - Verse
- TPR 4265C Acting for TV/Film
- TPR 4531C Period Movement
- TPR 4940 Theatre Performance Internship
- TPA 2248C Makeup Techniques
- TPA 3223 Theatre Careers for Performance
- DAA 2570C Jazz Dance I

Restricted electives (see list of courses) 16 hrs

Stage Management Specialization

- TPA 2211 Stagecraft II
- TPA 4602 Advanced Stage Management
- TPA 4400 Theatre Management
- TPP 2170C Acting I - Fundamentals
- TPA 2000C Theatre Design Basics
- TPA 2220 Stage Lighting
- TPA 2248C Makeup Techniques
- TPA 3060C Scene Design I
- TPA 3216C Stagecraft III
- TPA 3221 Lighting Design
- TPA 3230 Costume Construction
- TPA 3197 Summer Theatre Tech
- TPA 3195 Theatre Studio Tech
- TPA 4294 Thea. Prod./Perf. IV
- TPA 4295 Thea. Prod./Perf. V
- TPA 3601 Stage Management
- TPA 3280 Sound Design for Theatre
- TPA 4940 Design/Tech Internship
- TPA 3401 Theatre Careers for Tech/Management
- TPA 3250 ADD for Theatre

Restricted electives (see list of courses) 8 hrs

Design and Technology Specialization

- TPA 2211 Stagecraft II
- TPA 2220 Stage Lighting
- TPA 2000C Theatre Design Basics
- TPA 2071C Theatre Rendering
- TPA 3040 Costume Design
- TPA 3043C Costume History I
- TPA 3044C Costume History II
- TPA 3060 Scene Design I
- TPA 3061 Scene Design II
- TPP 2194 Costume Design II
- TPA 3077 Scene Painting
- TPA 3216C Stagecraft III
- TPA 3221 Lighting Design
- TPA 3197 Summer Theatre Tech
- TPA 3195 Theatre Studio Tech
- TPA 3230 Costume Construction
- TPA 3250 Cadd for Theatre
- TPA 3251 Advanced CADD for Theatre
- TPA 4294 Thea. Prod./Perf. IV
- TPA 3600 Sound Design for Theatre
- TPA 4940 Technical Theatre/Design Internship
- TPA 3401 Theatre Careers for Tech/Management

Restricted electives (see list of courses) 2 hrs

4B. Restricted Electives (see specializations)

Chosen from the following

- THE 3230 Commonality within Cultural Diversity
- THE 3240 Musical Theatre Survey
- THE 5307 Contemporary, Tha. Prac.
- THE 4372 Theatre/Drama of Tenn. Williams
- TPA 3197 Summer Theatre Studio/Design
- TPA 3195 Theatre Studio/Design
- TPA 3601 Stage Management
- TPA 4400 Theatre Management
- TPA 3197 Summer Theatre Perform.
- TPR 3992 Studio Performance
- TPR 4133C Acting Styles
- ARH 2050 History of Western Art I
- ARH 2051 History of Western Art II
- TPR 2248C Makeup Techniques
- TPR 4311* Advanced Directing

Any ADA courses with instructor and departmental approval

THE 4912* Undergraduate Research
- THE 3905 Independent Study*
- Other THE, TPA, or TPP courses as approved by the department

* requires instructor and departmental approval in advance

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each Theatre course
- 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
- Computer Competency met by STA 1060C
University of Central Florida

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 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 129 hours

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.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- THE 2020: may use any introductory course. However, THE 2020 is a prerequisite for all theatre courses and must be taken.
- THE 2XXX (Script Analysis): may use THE 2300 or THE 3305
- THE 2090: may use THE 2925
- TPA 2290: may use TPA 1290
- TPP 2190: may use TPP 1190 or TPP 2110
- TPA 2210: may use TPA 2200 or TPA 2201

THEATRE - MUSICAL THEATRE TRACK (B.F.A.)

College of Arts and Sciences
Department of Theatre, UTC 180; 407-823-2862
http://www.theatre.ucf.edu
E-mail: jcbell@mail.ucf.edu
Bell, 407-823-3020

The Bachelor of Fine Arts Track in Musical Theatre has been developed to serve those students interested in a career in the entertainment industry and the musical theatre stage. It is offered for students who, upon graduation, plan to pursue a specialized career in professional theatre.

Because of its geographic location, UCF is a top choice for students interested in musical theatre. Walt Disney World, Universal Studios, and the budding expansion of the arts in Central Florida make it necessary for students to receive advanced studies in acting, musical theatre voice, and dance.

Work within the BFA program requires energy and dedication; therefore, other part-time study or outside employment is generally impossible. BFA standards are high, both for admission and for continuation in the program. 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 majors via an interview and audition. For complete information, contact the Department of Theatre or visit the audition site online at 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 maintain a minimum “B” (3.0) overall Theatre GPA to continue in the major.
- Theatre grades of less than “C” (2.0) will not be counted.
- Continuation in the BFA program requires a positive annual evaluation.
- Co-op 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.
- All theatre students should participate, in some capacity, on two UCF-affiliated productions during both Fall and Spring semesters. Students failing to successfully participate will be placed on probation for one semester. Continued failure may result in being dropped as a major.
- All theatre students must include a participation credit course during every semester.
- All BFA 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. It is not designed for transfer students. Transfer students may audition and be admitted, but they should consult with the 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.
- Courses designated 2 (Common Program Prerequisites) are usually completed in the first 60 hours.
- Courses designated 1 (General Education Program) are taken throughout all four years.

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations
- Select one course from 1.B.1 list 3 hrs
- Select THE 2020 Survey of Theatre for Majors 3 hrs
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. Science Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites (9 hrs)
THE 2020 Survey of Theatre for Majors GEP
THE 2XXX Script Analysis 3 hrs
THE 2090 Theatre Production/Performance I 1 hr
TPA 2290 Theatre Production/Performance I 1 hr
TPA 2210 Technical Theatre Production 3 hrs
TPP 2190 Theatre Production/Performance I 1 hr
*See Transfer Notes for possible substitutes

3. Specialization: Lower Division (22 hrs)
MUT 1004 Fundamentals of Music I 3 hrs
MUT 1002 Fundamentals of Music II 3 hrs
TPP 2110 Acting I - Introduction 3 hrs
TPP 2170C Acting II - Fundamentals 3 hrs
DAW 2200C Ballet I 2 hrs
DAW 2201C Ballet II 2 hrs
DAW 2570C Jazz Dance I 2 hrs
DAW 2571C Jazz Dance II 2 hrs
DAW 2520C Tap Dance I 2 hrs
4. Specialization: Upper Division (54 hrs)

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<td>TPP 3250</td>
<td>Musical Theatre Acting Perf I</td>
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<td>Musical Theatre Acting Perf II</td>
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<td>TPP 4253</td>
<td>Musical Theatre Acting Perf III</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 4244</td>
<td>Musical Theatre History I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 4245</td>
<td>Musical Theatre History II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 3223</td>
<td>Theatre Careers for Performance</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 4531C</td>
<td>Period Movement</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPP 3512C</td>
<td>Stage Combat</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPP 4255</td>
<td>Musical Theatre Cabaret</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 2248C</td>
<td>Make-up Techniques</td>
<td>2 hrs</td>
</tr>
<tr>
<td>THE 3110</td>
<td>Theatre History I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 3310C</td>
<td>Directing I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 4193</td>
<td>Theatre Production/Performance IV</td>
<td>1 hrs</td>
</tr>
<tr>
<td>TPP 4194</td>
<td>Theatre Production/Performance V</td>
<td>1 hrs</td>
</tr>
<tr>
<td>TPP 4195</td>
<td>Theatre Production/Performance VI</td>
<td>1 hrs</td>
</tr>
<tr>
<td>TPP 3257</td>
<td>Musical Theatre Voice I</td>
<td>2 hrs</td>
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<tr>
<td>TPP 3259</td>
<td>Musical Theatre Voice II</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPP 4259</td>
<td>Musical Theatre Voice III</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPP 4023</td>
<td>Musical Theatre Voice IV</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 4940</td>
<td>Internship</td>
<td>6 hrs</td>
</tr>
</tbody>
</table>

4B. Restricted Electives (8 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE 3230</td>
<td>Commonality within Cultural Diversity</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 5307*</td>
<td>Contemporary, Thea., Prac.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 4372</td>
<td>Theatre/Drama of Tenn. Williams</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 3317</td>
<td>Summer Theatre Studio/Tech/Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 3195</td>
<td>Theatre Studio/Tech/Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 3197</td>
<td>Summer Theatre Perform.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 3592</td>
<td>Studio Performance</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 4143C</td>
<td>Acting Styles</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 3601*</td>
<td>Stage Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 4400</td>
<td>Theatre Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 3905*</td>
<td>Independent Study</td>
<td>1-9 hrs</td>
</tr>
<tr>
<td>TPP 4311*</td>
<td>Advanced Directing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Other THE, TPA, or TPP courses as approved by the department</td>
<td>2-8 hrs</td>
<td></td>
</tr>
</tbody>
</table>
*requires instructor and departmental approval in advance

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each Theatre course
- Maintain a 'B' Theatre GPA (3.0) or better
- 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
- Computer Competency met by STA 1060C

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)
### MINORS

Minors are authorized only for certification with baccalaureate degrees. Minors must be certified at the same time as the student's baccalaureate degree. Unless a second baccalaureate degree is earned, certification will not be made at a later time even if additional courses have been completed.

A student may declare a minor up to but no later than the submission of the "Intent to Graduate Form." Students are strongly urged to declare a minor as early as possible. Contact the student support office of the college offering the minor.

#### Minor
- Accounting
- Aerospace Studies
- African - American Studies
- Aging Studies
- American Humanities
- American Studies
- Anthropology
- Anthropology in Multicultural Studies
- Art History
- Art - Studio
- Asian Studies
- Astronomy
- Biology
- Business
- Chemistry
- Coaching
- Cognitive Sciences
- Communicative Disorders
- Community Arts - PAVE
- Computer Science
- Criminal Justice
- Dance
- Digital Media
- Early Childhood Education
- e-Business
- Economics
- Emergency Management
- 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 Business
- Interpersonal Communication
- Italian
- Judaic Studies
- Latin American Area Studies
- Legal Studies
- Magazine Journalism
- Management Information Systems
- Marketing
- Mass Communication
- Mathematics
- Middle Eastern Studies
- Military Science
- Molecular Biology and Microbiology
- Music
- North American Indian Studies
- Organizational Communication
- Philosophy
- Philosophy, Religion and Popular Culture
- Physics
- Political Science
- Political Science/Prelaw
- Psychology
- Public Administration
- Real Estate
- Religious Studies
- 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

#### Certificates
- Addictions Certificate
- Aging Studies Certificate
- American Sign Language Certificate
- Behavioral Forensics Certificate
- Children's Services Certificate
- Computer Information Technology 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
- Information Technology 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
- Music Technology
- Non-Profit Management Certificate
- Security Management Certificate
- Translation and Interpretation Certificate
- Women's Studies Certificate

### Additional UCF Programs

#### Foreign Study Abroad Program:
- Dominica
- France
- Germany
- Italy
- Japan
- Jordan
- South Africa
- Spain

#### English Study Abroad Program:
- Mexico
- Scotland

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250 UNIVERSITY OF CENTRAL FLORIDA 2005-2006 Undergraduate Catalog
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)
AGG 2021 Principles of Financial Accounting 3 hrs
AGG 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):
AGG 3131 Financial Accounting Concepts and Analysis 3 hrs
AGG 3361 Intermediate Managerial Accounting 3 hrs
Restricted Electives (12 hrs)
Select four from the following (at least two courses must have either an AGG or TAX prefix):
AGG 3131 Financial Accounting Concepts and Analysis 3 hrs
AGG 3361 Intermediate Managerial Accounting 3 hrs
AGG 3141 Intermediate Financial Accounting 3 hrs
AGG 3501 Accounting and Auditing in the Public Sector 3 hrs
AGG 4401 Accounting Information Systems 3 hrs
AGG 4651 Auditing 3 hrs
AGG 4671 Internal Auditing 3 hrs
AGG 4692 Approved Special Topics Courses in Accounting 3 hrs
TAX 4001 Taxation of Business Entities and Transactions 3 hrs

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
Lt Col Timothy D. Wieck, 407-823-1247

Credit Hour Requirements 16 hrs
Required Courses (16 hr)
AFR 2101 The Air Force Today I 1 hr
AFR 2111 The Air Force Today II 1 hr
AFR 2130C The Development of Air Power I 1 hr
AFR 2131 The Development of Air Power II 1 hr
AFR 3220C Air Force Leadership and Management I 3 hrs
AFR 3230 Air Force Leadership and Management II 3 hrs
AFR 4201C Nat Scry Forces in Cont Am Soc I 3 hrs
AFR 4210 Nat Scry Forces in Cont Am Soc II 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "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.

AFRICAN-AMERICAN STUDIES: Minor
College of Arts and Sciences
African 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 and Literatures, Political Science, Psychology, Sociology, Anthropology, Film, and Theatre.

Credit Hour Requirements 18 hours
Required Courses (6 hrs)
APA 3104 The African American Experience 3 hrs
AMH 3571 Black American History I 3 hrs
Restricted Electives (12 hrs)

Additional courses may be used only with the prior permission of the program director.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (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.
- Independent Study credit may not be used toward the minor.
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 credit hours)
Required Courses (6 credit hours)
PAF 3930 American Humanities Human Service Workshop 3 hrs
(1 credit repeated three semesters)
PAF 4922 American Humanities Internship 3 hrs
Internships within other programs may be accepted with prior approval of American Humanities advisor.

Generalist Emphasis
Restricted Electives (12 credit hours)
Choose at least one course from each of the following four groups.
Group I: General Nonprofit Management, Volunteerism and Human Development 3 hrs
PAD 4144 Nonprofit Organizations
PAD 4148 Volunteer Management
*SOW 3203 Social Welfare and Community Resources
*SOW 3104 Assessing I - Human Development
DEP 2004 Developmental Psychology
PPE 3003 Personality Theory
DEP 3464 Psychology of Aging

Group II: Planning & Evaluation and Human Resource Development 3 hrs
PAD 4144 Nonprofit Organizations
PAD 4153 Strategic Planning & Implementation
PAD 4325 Program Evaluation for the Public and Nonprofit Organizations
*SOW 4431 Evaluating Social Work Practice & Service Programs
PAD 4414 Human Resource Management
MAN 3025 Management of Organizations
MAN 3001 Human Resource Management
MAN 4101 Human Relations in Management
MAN 4320 Human Resources, Recruitment & Selection

Group III: Communication & Marketing 3 hrs
PAD 4144 Nonprofit Organizations
*SOW 3352 Practice II: Interpersonal Skills
COM 3110 Business & Professional Communications
GEB 3031 The Cornerstone Course
MAR 2023 Marketing
MAR 3641 Marketing Intelligence
MAR 4803 Marketing Management

Group IV: Nonprofit Accounting & Financial Management and Fund Raising Principles & Practices. 3 hrs
PAD 4144 Nonprofit Organizations
ACG 2071 Managerial Accounting
PAD 5850 Grant Contract Management
PAD 4204 Fiscal Management
PAD 4131 Public Sector Project Management
PAD 4147 Resource Development in the Nonprofit Sector
Public Affairs Emphasis

Restricted Electives Choose at least two from the following (6 credit hours)
PAD 4131 Public Sector Project Management
PAD 4144 Non-Profit Organizations
PAD 4147 Resource Development in the Nonprofit Sector
PAD 4204 Fiscal Management
PAD 4325 Program Evaluation for the Public and Non-Profit Organizations

Restricted Electives Choose at least two from the following (6 credit hours)
PAD 4148 Volunteer Management
PAD 4153 Planning and Improvement for Public Organizations
PAD 4223 Public Budgeting
*PAD 4253 Community and Economic Development
* open only to SOW majors

Other Requirements
- Enrollment in American Humanities Certificate Program through

AMERICAN STUDIES: Minor
College of Arts and Sciences
Liberal Studies Office, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team

Credit Hour Requirements 21 hours
Required Courses (9 hrs)
Select one course in each of the three categories below

Literature and Humanities
AML 3031 American Literature I
AML 4010 American Novel
AML 4261 Literature of the South
AML 3682 Ethnic Literature in America

Social Sciences
POS 3413 The American Presidency
POT 3204 American Political Thought
SYD 3700 Race and Ethnic Minorities in the U.S.
SYP 3630 Sociology of Popular Culture

History
AMH 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 4211 American Culture I
AMH 4313 American Culture II

Restricted Electives (12 hrs)
Courses chosen from courses approved by the Liberal Studies advisors. A list can be obtained by meeting with an advisor to plan your course of study.

Other Requirements
- Students must earn at least a “C” (2.0) in each course used to satisfy the minor.
- At least eighteen credit hours must be earned in upper level credits.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ANTHROPOLOGY: Minor
College of Arts and Sciences
Department of Sociology & Anthropology, PH 403
http://cas.ucf.edu/soc_anthro/firstpage.html
anthropology@ucf.edu
Jay Corzine, 407-823-2227

The Anthropology minor develops a holistic understanding of the past and present human condition. Four different concentrations are delimited within the Anthropology minor.

Credit Hour Requirements 18 hours
Required Courses (6 hrs)
Two of the following four 2000 level courses must be included in the minor:
ANT 2000 General Anthropology 3 hrs
ANT 2100 Archaeology & Rise of Human Culture 3 hrs
ANT 2410 Cultural Anthropology 3 hrs
ANT 2511 The Human Species 3 hrs

Restricted Electives (12 hrs)
Four other Anthropology courses must be taken within one of the following defined concentrations. Substitutions must be approved by the Anthropology Coordinator.

Concentration in General Anthropology (12 hrs)
All four 2000 level courses plus two upper level (3000-5000) courses in Anthropology

Concentration in Archaeology (12 hrs)
ANT 2000 and ANT 2100 must be taken. The other four courses must be selected from:
ANT 3158 Florida Archaeology
ANT 3115 Archaeological Method and Theory
ANT 3142 Old World Prehistory
ANT 3145 Archaeology of Complex Societies
ANT 3163 Mesoamerican Archaeology
ANT 3168 Maya Archaeology (or ANG 6168)
ANT 3184 Mortuary Archaeology
ANT 4153  North American Archaeology
ANT 4180C  Seminar in Laboratory Analysis
ANT 4824  Advanced Archaeological Field Work
ANG 5166  Problems of Maya Archaeology
ANG 5167  Maya Hieroglyphs
ANG 5228  Maya Iconography

Concentration in Physical Anthropology (12 hrs)
Take four of the following courses:
- ANT 3180  Mortuary Archaeology
- ANT 3541  Biobehavioral Anthropology
- ANT 3550  Primatology
- ANT 4521C  Forensic Anthropology
- ANT 4462  Medical Anthropology
- ANT 4525C  Human Osteology
- ANT 4598  Human Origins

Concentration in Cultural Anthropology (12 hrs)
ANT 2000 and ANT 2410 must be taken. The other four courses must be selected from:
- ANT 3212  Peoples of the World
- ANT 3241  Magic, Ritual, and Belief
- ANT 3245  Native American Religions
- ANT 3262  Rural Society
- ANT 3273  Law and Culture
- ANT 3302  Sex, Gender and Culture
- ANT 3311  Indians of the SE US
- ANT 3312  Ethnology of North Amer Indians
- ANT 3313  Indians of N Amer High Plains
- ANT 3314  Indians of the Northeast Woodlands
- ANT 3318  Indians of the Northwest Coast
- ANT 3316  The Incas
- ANT 3331  Peoples and Culture of Latin America
- ANT 3701  Applied Anthropology
- ANT 3363  Anthropology of Japan
- ANT 3340  Language and Culture
- ANT 3340C  Caribbean Cultures
- ANT 3319  The Anthropology of Diaspora
- ANT 4034  History of Anthropological Thought
- ANT 4308  Gender Issues in Latin America
- ANG 5167  Maya Hieroglyphs
- ANG 5228  Maya Iconography
- ANG 6324  Contemporary Maya

Other Requirements
- Earn a grade of “C” (2.0) or better in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.

ANTHROPOLOGY IN MULTICULTURAL STUDIES: Minor
College of Arts and Sciences
Department of Sociology & Anthropology, PH 403
http://www.cas.ucf.edu/soc_anthro/firstpage.html
anthropology@ucf.edu
Jay Corzine, 407-823-2227

This minor develops a more sophisticated understanding of the recent dilemmas of Hispanic, Native American, and Pacific Rim cultures, sex, and gender controversies in America and other societies, and the theoretical and practical issues of modern applied anthropology. The minor is especially appropriate for students majoring in political science, international business, or for any student seeking an enhanced understanding of contemporary cultural relations.

Credit Hour Requirements 18 hours
Required Course (3 hrs)
One of the following two 2000 level courses must be included in the minor:
- ANT 2000  General Anthropology
- ANT 2410  Cultural Anthropology

Restricted Electives (15 hrs)
Five other Anthropology courses must be taken from the following offerings. Substitutions require the consent of the Anthropology Coordinator.
- ANT 3164  The Incas
- ANT 3212  Peoples of the World
- ANT 3241  Magic, Ritual, and Belief
- ANT 3245  Native American Religions
- ANT 3302  Sex, Gender and Culture
- ANT 3311  Indians of the SE US
- ANT 3312  Ethnology of North Amer Indians
- ANT 3332  People and Cultures of Latin Amer
- ANT 3340  Language and Culture
- ANT 3340C  Caribbean Cultures
- ANT 3319  The Anthropology of Diaspora

ANT 4308  Gender Issues in Latin America
SYD 3700  Race and Ethnic Minorities in the US

Other Requirements
- Earn a grade of “C” (2.0) or better in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Not open to Anthropology majors.

ART HISTORY: Minor
College of Arts and Sciences
Art Department, VAB 117
http://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  Early Italian Renaissance Art 3 hrs
- ARH 4430  19th Century Art 3 hrs
- ARH 4450  20th Century Art 3 hrs

Non-western Course Requirement (3 hrs)
Select from the following:
- ARH 4545  Art of India
- ARH 4550  Art of Africa
- ARH 4655  Meso American Art

Restricted Elective: (3 hrs)
- ARH 4430  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 six of the required hours must be regularly scheduled 3000-4000 level courses in an area of specialization and taken at UCF.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ART - STUDIO: Minor
College of Arts and Sciences
Art Department, VAB 117
http://www.art.ucf.edu/
art@ucf.edu
J. Chavda, 407-823-2676

Credit Hour Requirements 24 hours
Required Courses (18 hrs)
- ARH 2050  The History of Art I 3 hrs
- ARH 2051  The History of Art II 3 hrs
- ART 2201C  Design Fundamentals 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 an area of specialization and taken at UCF.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
Minors

ASIAN STUDIES: Minor
College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

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
HUM 4301 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 Arts and Sciences
Department of Physics, MAP 310
physics@ucf.edu
407-823-2325

Credit Hour Requirements 20 hrs
Required Course
PHY 2048 Physics for Engineers & Scientists I 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
PHY 2048L Physics for Engineers and Scientists I Lab and
AST 200L 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.

CHEMISTRY: Minor
College of Arts and Sciences
Department of Chemistry and Forensic Science, CH 117
http://www.cas.ucf.edu/chemistry
chemistry@ucf.edu

Credit Hour Requirements 28 hrs
Required Courses
BSC 2010C Biology I 4 hrs
CHM 2045C Chemistry Fundamentals I 4 hrs
CHM 2046 Chemistry Fundamentals II 3 hrs
CHM 2210 Organic Chemistry 3 hrs
PCB 3023 Molecular Cell Biology 3 hrs
PCB 3044 Principles of Ecology 3 hrs
PCB 3063 Genetics 3 hrs
PCB 4683 Population Biology and Evolution 5 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
- A minor in Biology will not be awarded to students who have, or expect to earn, any other Life Science degree.

BUSINESS: Minor for Non-Business Majors
College of Business Administration, BA2-101
B. Moore, 407-823-5256, bmoore@bus.ucf.edu

Credit Hour Requirements 24 hrs
Required Accounting Course(s) (6 hrs)
ACG 2021 Principles of Financial Accounting
and
ACG 2071 Principles of Managerial Accounting

Required Courses
ECO 2013 Microeconomics
ECO 2023 Macroeconomics
FIN 3403 Business Finance
MAD 3025 Management of Organizations
MAR 3023 Marketing

Restricted Elective (3 hrs)
A 3000 level business core course
(GEB 3004 may not be used)

Other Requirements
- A grade of “C” (2.0) 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.

BIOLOGY: Minor
College of Arts and Sciences
Biology Department, BL 301
http://pegasus.cc.ucf.edu/~biology
E-mail: biology@ucf.edu
F. Logiudice, 407-823-2141

Credit Hour Requirements 32 hrs
Required Courses
BSC 2010C Biology I 4 hrs
Minors

Foundation Courses
Select from at least 4 subject areas

Neuroscience
- PSB 3002 Physiological Psychology (PR: PSY 2012)
- PSB 420C Neuropsychology (PR: PSB 3002)
- ZOO 744 Neurobiology (PR: SBC 2010C)
- PSB 442 Brainwaves and Behavior (PR: PSB 3002)

Philosophy
- PHI 3320 Philosophy of Mind (PR: PHI 2010 or C.I.)
- PHI 3323 Minds and Machines (PR: PHI 2010 or C.I.)
- PHI 4341 Ways of Knowing (PR: PHI 2010)
- PHI 3451 Philosophy of Psychology (PR: Junior or C.I.)
- PHI 4400 Philosophy of Science

Psychology
- EXP 3604C Cognitive Psychology (PR: PSY 2012)
- EXP 4507 Advanced Human Memory and Cognition
  (PR: PSY 3213C and EXP 3604C)
- EXP 3204 Perception (PR: PSY 2012, PSY 3213C)

Computer Science and Information Technology
- CAP 4453 Robot Vision (PR: COP 3530C and MAC 2312, or C.I.)
- CAP 4630 Artificial Intelligence (PR: COP 3530C)
- EEL 3520 Information Theory (PR: MAC 2147 or any calculus course; not open to EE or CPE majors)
- EEL 3552C Signal Analysis & Communications (PR: EEL 3004)

Language and Linguistics
- LIN 3010 Principles of Linguistics (PR: ENC 1102)
- LIN 3716 Language Development: Birth Through 8 Years (PR: DEP2004)
- LIN 3717 Language Development: 9-18 Years (PR: LIN 3716)
- LIN 3840 Psychology of Oral Communication

Restricted Electives

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.

Credit Hour Requirements 18 hours

Required Courses (18 hrs)

PET 2622C Human Injuries 3 hrs
PET 3705 Coaching Theory 3 hrs
PET 4043 Sports Ethics 3 hrs
PET 4215 Motivational Aspects of Athletic Performance 3 hrs
PET 4763 Coaching Methods and Principles 3 hrs

Select one course from the following:

PEO 2624 Coaching Football 3 hrs
PEO 3644 Coaching Basketball 3 hrs
PEO 3324 Coaching Volleyball 3 hrs

*If the student has completed this course at a community college it can be transferred into the program.

Other Requirements

An overall GPA of 2.0 is required to satisfy the minor.
No grades below "C" (1.75) and no “S” grades will be accepted.
At least 12 hours used in the minor must be earned at UCF.
No TSD or Military credit may be used.
Internship or Independent Study credit cannot be used toward the minor.

COGNITIVE SCIENCES: Minor
College of Arts and Sciences
Philosophy Department, CNH 411
http://www.cas.ucf.edu/philosophy/

E-mail: phildept@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, 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.

**CHM 3422** Applied Physical Chemistry
**CHM 5225** Advanced Organic Chemistry I
**CHM 4220** Organic Chemistry III
**CHM 4230** Concepts in Industrial Chemistry
**CHM 5235** Applied Molecular Spectroscopy
**CHM 5450** Polymer Chemistry
**CHS 4615** Environmental Chemistry

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 11 hours used in the minor must be earned at UCF within the department, with a minimum GPA of 2.0.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
COMMUNICATIVE DISORDERS: Minor
College of Health and Public Affairs
Department of Communicative Disorders
HPA2 Suite 101
Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798
E-mail: jschwart@mail.ucf.edu
http://www.cohpa.ucf.edu/comdis

Credit Hour Requirements 22 hours
Required Courses
- SPA 3471 Communicative Disorders In Literature & Media 3 hrs
- SPA 3112 Basic Phonetics 3 hrs
- SPA 3112L Basic Phonetics Lab 1 hr
- LIN 3716 Language Development: Birth Through 8 years 3 hrs
- SPA 3101 Physiological Bases of Speech and Hearing 3 hrs
- SPA 4032 Audiology 3 hrs
- SPA 4400 Language Disorders Across the 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 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.

COMMUNITY ARTS—PAVE: Minor
College of Arts and Sciences
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.
- No credit by exam (TSD, Military credit) may be used toward the minor.

DANCE: Minor
College of Arts and Sciences
Theatre Department, UTC 180
http://www.theatre.ucf.edu
ktollefs@mail.ucf.edu
Kristina Tollefsen, 407-823-2862

Credit Hour Requirements 18 hrs
Entrance Requirement
A successful audition

Required Courses
- DAA 2130 Dance History I 3 hrs
- DAA 2510 Dance Improvisation/Composition I 3 hrs
- DAA 2100C Modern Dance I 2 hrs
- DAA 2200C Ballet I 2 hrs
- DAA 3680 Dance Performance 1 hr

Electives (7 hrs)
- DAA 2570C Jazz Dance I 2 hrs
- DAA 2571C Jazz Dance II 2 hrs
- DAA 3502C Jazz Dance III 2 hrs
- DAA 2502C Tap Dance I 2 hrs
- DAA 2521C Tap Dance II 2 hrs
- DAA 3524C Tap Dance III 2 hrs
- DAA 2201C Ballet II 2 hrs
- DAA 3202C Ballet III 2 hrs
- DAA 2101C Modern Dance II 2 hrs
- DAA 3102C Modern Dance III 2 hrs
- DAA 2393C World Dance 2 hrs
- DAA 3645 Choreography Practicum 2 hrs
- DAA 3680 Dance Performance 1 hr
- THE 2090 Theatre Production/Performance I 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.
- Internship, cooperative education, or Independent Study credit cannot be used toward the minor.

CRIMINAL JUSTICE: Minor
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPA1 311
David Fabianic, 407-823-5940
cjadvise@mail.ucf.edu

Credit Hour Requirements 18 hours

Required Courses
- (6 hrs)
  - CCJ 3024 Criminal Justice System 3 hrs
  - CCJ 3014 Crime in America 3 hrs

Restricted Electives (12 hrs)
- Two of the following:
  - CIL 3510 Prosecution and Adjudication 3 hrs
  - CJC 3010 The Corrections and Penology 3 hrs
  - CJE 4014 Police and Society 3 hrs

Other Requirements
- Students must earn an overall minimum of 2.0 GPA in the courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.
DIGITAL MEDIA: Minor
College of Arts and Sciences
Digital Media Program, VAB 205
http://www.creat.cas.ucf.edu
moshell@cs.ucf.edu
M. Moshell, 407-823-6100

Credit Hour Requirements
Required Courses: 12 hrs
DIG 3001 Principles of Digital Media
GPA 2101C Introduction to Computer Art
DIG 4718L Internet Interaction
COP 2500C Concepts in Computer Science

Restricted Elective Courses 6 hrs
Select two courses:
MUS 2380C Intro to Music Technology
ENC 4415 Digital Rhetorics and the Modern Dialectic
IDS 3701C Internet Software Design
ART 2201C Design Fundamentals I
DIG 4890C Assembling Digital Media
FIL 3625 Interactive Entertainment
DIG 4921C Media for e-Commerce I
DIG 4641 Creative Digital Devices
DIG 4780 Modeling for Realtime Graphics
DIG 3135C Digital Imagery
DIG 3855 Converging Media
DIG 4640 Autonomous Media
DIG 4715C Game Engines
DIG 4713C Game Design

Other Requirements
A minimum grade of "C" (2.0) or better is required in each course used to satisfy the minor.
15 hours used in the minor must be taken at UCF.
No credit by exam (TSD, Military credit) may be used.
Internship, cooperative education, or Independent Study credit can be used in the minor only with prior written permission.

EARLY CHILDHOOD EDUCATION: Minor
College of Education
Department of Child, Family, and Community Sciences
ED 209
http://pegasus.cc.ucf.edu/~eceucf/
Program Coordinator: Lynn Hartle
ED 206-K, 407-823-4163
E-mail: harttle@mail.ucf.edu

The Early Childhood Education minor is intended to provide a limited, but substantive experience in the fields of education and early childhood education. The minor is intended for University students enrolled outside the College of Education and does not lead to teacher certification or admission to the College of Education. The minor is appropriate for students who are seeking an enhanced understanding of education or are considering a career working with young children in the fields of education, early childhood education, social work, psychology or health services. This minor will strengthen the marketability of the student’s major program.

Credit Hour Requirements
Required Courses: 18 hrs
RED 3310 Emergent Literacy 3 hrs
ECC 3268 Play Development 3 hrs
EDF 3307 Learning Environments & Guidance 3 hrs
EEX 3450 Young Children with Special Needs 3 hrs
EEX 4751 Parent Involvement 3 hrs
TSL 4080 Theory and Practice of Teaching ESOL 3 hrs

Restricted Electives (3 hrs)
EDF 3740 Foundations of ECE 3 hrs
EDF 3120 Observing Child Growth & Development 3 hrs
LAE 3414 Children’s Literature 3 hrs
RED 3012 Foundations of Reading 3 hrs
EEC 4731 Health Safety & Nutrition 3 hrs

Other Requirements
A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
Grades below "C" (2.0) are not accepted.
At least 15 hours used in the minor must be earned at UCF.

ECONOMICS: Minor
(for both Business Majors and non-Business Majors)
College of Business Administration
Department of Economics, BA 318
R. Pennington, 407-823-2640, rpennington@bus.ucf.edu

Credit Hour Requirements
Required Courses: 18 hrs
ECO 2013 Macroeconomics 3 hrs
ECO 2023 Microeconomics 3 hrs
Select one of the following two courses:
ECO 3101 Intermediate Price Theory 3 hrs
ECO 3203 Aggregate Econ Conditions Anal 3 hrs

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: Minor
College of Health and Public Affairs
Department of Public Administration, HPA2 238
Dr. Ronnie Korosec, 407-823-2604; fax: 407-823-5651
Email: rkorosec@mail.ucf.edu

The minor in emergency management 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 and booming area of study. Students who complete a minor in emergency management gain additional insight and knowledge that will help them find positions in various federal, state and local government and nonprofit organizations. Some of these may include the Environmental Protection Agency, the Occupational Health and Safety Administration, the Orange County Emergency Management Division, and the Federal Emergency Management Agency, among others.

Credit Hour Requirements
Required Courses: 18 hrs
PAD 4110 Intergovernmental Administration 3 hrs
PAD 4392 Managing Public Emergencies 3 hrs
PAD 4393 Emergency Management and Disaster Planning 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 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 9 hours used in the minor must be earned at UCF with-
Minors

ENGLISH - CREATIVE WRITING: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 21 hours
Required Course
CRW 3013 Creative Writing for English Majors 3 hrs
Restricted Elective Courses
Select one course after completing CRW 3013
CRW 3120 Fiction Writing Workshop
CRW 3211 Nonfiction Writing
CRW 3510 Poetry Writing Workshop
CRW 3211 Creative Nonfiction Writing

Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - LINGUISTICS: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 18 hours
Required Courses
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
LIN 4643 Cross Cultural Communication 3 hrs
LIN 4680 Linguistics and Literature 3 hrs
LIN 4681 Language and Meaning 3 hrs
LIN 5137 Linguistics 3 hrs
ANT 3640 Language and Culture 3 hrs
Phi 4400 Philosophy of Science 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.

ENGLISH - LITERATURE: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 21 hrs
Required Course
ENG 3014 Theories and Techniques of Lit Study 3 hrs

Restricted Upper Division Electives
Any 3000 or 4000 level ENC or CRW classes for which the student has met the pre-requisites, including
CRW 4320 Advanced Poetry Writing Workshop
CRW 4224 Advanced Nonfiction Workshop
CRW 4123 Science Fiction Writing
CRW 4218 Visual Elements in Documentation
CRW 4295 Technical Documentation III 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.
ENVIROMENTAL STUDIES: Minor
College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

The Environmental Studies minor is an interdisciplinary program that prepares students for a diverse set of academic endeavors and careers. It delivers the tradition of a liberal arts education with the rigor of the natural and social sciences, providing the introspection and artistic presentation of the humanities with the inquisitiveness that we share concerning our environment.

Credit Hour Requirements 21 hours

Note: It is the student's responsibility to ensure that any prerequisite courses have been completed before enrolling in any of these courses requiring a prerequisite.

Required Course

IDS 3150 Foundations of Environmental Studies 3 hrs

Science & Environmental Electives (9 hrs)

Natural Sciences
BSC 1000L Biology and Environment + lab
BSC 2011C Biology II
BOT 3152C Local Flora
BOT 4156C Florida Wildflowers
BOT 3000C Ethnobotany
BOT 4303C Plant Kingdom
BOT 4868C Conservation and Management of Native Plants
BOT 5623C Plant Geography and Ecology
BOT 4713C Plant Taxonomy
BSC 4312C Marine Biology
PCB 3044L Principles of Ecology and Lab
PCB 3442 Florida Aquatic Ecology
PCB 4302C Physicochemical Limnology
PCB 4303C Biological Limnology
PCB 4683 Population Biology and Evolution
PCB 5045C Conservation Biology
PCB 5326C Ecosystems of Florida
PCB 5483C Marine Ecology of Florida
PCB 5485 Models in Ecology
PCB 5328C Landscape Ecology
CHM 3120C Analytical Chemistry
CHS 4615 Environmental Chemistry
HSC 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
ECO 4302 Economics of the Environment
ECO 4701 The Global Economy
INR 4351 International Environmental Law
PUL 3203 Environmental Politics
PUL 4503 Government and Science
PAD 4351 Issues in Environmental Program Management
PAD 5336 Introduction to Urban Planning
PAD 5338 Land Use and Planning Law
PLA 4631 Land Use and Environmental Law

Geography
GEO 2370 Resources Geography
GEO 3151C GIS for Environmental Studies
GEO 4131C Remote Sensing of the Environment

Philosophy
PHI 3033 Philosophy, Religion, and the Environment
PHI 4400 Philosophy of Science
PHI 3840 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 3312 Ethnology of North American Indians

Writing, Journalism Courses
JOU 4811 Public Affairs Reporting
PGY 3610C Photojournalism I
LIT 4433 Survey of Technical and Scientific Literature

Other Requirements

- A grade of “C” or above (2.0) is required in each course used to satisfy the minor.
- 18 hours must be taken at the upper division.

At least 15 hours used in the minor must be earned at UCF.
No credit by exam (TSD, Military credit) may be used.
Internship or Independent Study require prior approval from the Liberal Studies advisors to be used toward the minor.
Internship, independent study, and co-op credit cannot be used in this minor.

EUROPEAN STUDIES: Minor
College of Arts and Sciences
Department of Political Science, CNH 415
http://www.cas.ucf.edu/politicalscience

Kerstin Hamann, 407-823-2608; politics@mail.ucf.edu

An interdisciplinary minor that offers students a general background of the politics, history, literature, art, and culture of Europe with an emphasis on the 20th century. Courses are to be selected in consultation with a departmental advisor or the director of European Studies.

Credit hour requirements: 21 hours

Students are responsible for meeting any prerequisites for the courses in the minor.

Required core courses: 6 hours

CPO 4101 Politics of the European Union
LIT 3062 Continental European Fiction

Restricted Electives: 12 hours

Literature, Film, and Culture: (3 hrs)

FRW 4281 20th Century French Novels
FRW 4324 20th Century French Drama
FRW 4532 French Romanticism
FRW 4552 Nineteenth Century French Literature
MUL 3605 French Song Literature
FRE 4500 French Civilization and Culture
FIL 3521 French Film
GEW 3101 Survey of German Literature I
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
JST 3751 Literature of the Holocaust
MUL 3604 German Song Literature
FIL 3522 German Film
GER 3100 Germany - Past to Present
GER 4520 Modern Germany
ITA 4500 Italian Civilization
FIL 3520 Italian Film
ITW 3101 Survey of Italian Literature I
SPW 3101 Survey of Spanish Literature II
SPW 3370 Spanish Short Story
SPW 4272 20th Century Spanish Novel
SPW 4322 Contemporary Iberian Theatre
SPW 4460 Nineteenth Century Spanish Literature
SPW 4450 Spanish Literary Theory
SPW 4720 The Generation of 1898
ENL 2022 English Literature II
ENL 4101 English Novel
ENL 4240 English Romantic Writers
ENL 4262 19th Century British Prose
ENL 4273 Modern British Literature
LIT 4184 Irish Literature

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 4610 Women in European Society
EUH 4620 European Great Powers: 1815-1914
EUH 4621 War & International Politics in Europe, 1916-present
JST 3701 History of the Holocaust
GER 4510 Life and Culture in Nazi Germany
EUH 4501 English History: 1485-1815
EUH 4502 English History: 1815-Present
Minors

Political Science or Economics (3 hrs)
CPO 3104 Politics of Western Europe
CPO 3614 Politics of Eastern Europe
CPO 4123 Government and Politics of Great Britain
CPO 4445 Comparative Political Parties
CPO 4074 Political Economy
ECS 4303 Economics of European Integration

Other: 3 Hours
may be taken from any of the above electives or Foreign Language Cross disciplinary course
PHN 3510 Marx and Nietzsche
PHP 3783 Modernity as a Philosophical Problem
PHP 3786 Existentialism
PHP 4762 Phenomonology
ARTH 4303 19th Century Art
ARTH 4450 20th Century Art

Any course substitutions are subject to prior approval by the director.

Foreign Language Requirement:
Two years (four semesters) or equivalent proficiency exam in French, German, Greek, Italian, Portuguese, or Spanish (other languages require approval of director).

Other Requirements
- A grade of “C” (2.0) or better is required for all courses counting towards the minor.
- A maximum of 6 hours of Study Abroad credit in equivalent courses can be used, with no more than 3 credits in one area.
- At least 18 hours must be taken at UCF.
- No credit by exam (military credit, TSD) may be used.
- Courses offered by the Modern Languages Department might be offered in a language other than English.
- At least 15 credits must be upper division.

EXCEPTIONAL EDUCATION: Minor
College of Education
Department of Child, Family, and Community Sciences
ED 209; http://www.edcollege.ucf.edu
Program Coordinator: Dr. Lee Cross
E-mail: lcross@mail.ucf.edu

The Exceptional Education minor is intended to provide a limited, but substantive experience in the fields of education and exceptional children. The minor is not intended for students enrolled in the College of Education and does not lead to teacher certification nor admission to the College of Education. The minor is appropriate for students who are seeking an enhanced understanding of education or are considering a career in the fields of education or educational administration. 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 4603 Analysis of Critical Issues in Education 3 hrs
EEX 3243 Techniques for Exceptional Adolescents/Adults or
EEX 3241 Methods for Academic Skills for Exceptional Students 3 hrs

Restricted Electives (2-3 hrs)
EEX 4054 Applications and Theories for Students with Special Needs 2 hrs
EDP 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 universitie 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
Required Courses (12 hrs)
FIN 3403 Business Finance 3 hrs
FIN 3470 Financial Statement Analysis 3 hrs
FIN 3504 Investment Analysis 3 hrs
FIN 3424 Advanced Topics in Financial Management 3 hrs
FIN 4533 Financial Derivatives 3 hrs
FIN 4453 Financial Management 3 hrs
FIN 4514 Portfolio Analysis and Management 3 hrs
FIN 4531 Financial Planning 3 hrs
FIN 4064 International Financial Management 3 hrs

Electives (select three of the following) (6 hrs)
FIN 3412 Corporate Finance 3 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 4424 Advanced Topics in Financial Management 3 hrs
FIN 4453 Financial Models 3 hrs
FIN 4514 Portfolio Analysis and Management 3 hrs
FIN 4531 Financial Planning 3 hrs
FIN 4533 Financial Derivatives 3 hrs
FIN 4064 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.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward
No credit by exam (TSD, Military credit) may be used.

At least 15 hours used in the minor must be earned at UCF.

Other Requirements

With the knowledge acquired from the completion of the required coursework for the Fitness Training Minor, students will be prepared and eligible to receive certification from The American Council on Exercise.

Credit Hour Requirements

Required Courses

PET 4550 Fitness Assessment and Exercise 3 hrs
PET 4083C Practical Fitness Training (Only offered once a year) 4 hrs
PET 2622C Human Injuries 3 hrs
PET 4312 Biomechanics 3 hrs
PET 4171 Aerobics 2 hrs

Other Requirements

No grades below "C-" (1.75) are accepted.
No grades below "C-" (1.75) are accepted.

A minimum overall GPA of 2.5 is required. A minimum grade of "C" (2.0) is required in all Health Professions coursework. A grade of "C" (2.0) or better is required in all Health Professions coursework. A grade of "C" (2.0) is required in all Health Professions coursework.

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.

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.

A minimum GPA of 2.5 is required. A minimum grade of "C" (2.0) is required in all Health Professions courses.

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.
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.
No credit by exam (TSD, Military credit) may be used.

Internship or Independent Study credit cannot be used toward the minor without departmental approval.
Internship or Independent Study credit cannot be used toward the minor without departmental approval.

French: Minor

College of Arts and Sciences
Modern Languages and Literatures, CNH 523
http://www.cas.ucf.edu/forlang
Modernlanguage@ucf.edu
P. Giordano, 407-823-2472

Credit Hour Requirements

Required Courses

PET 3217I 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
PET 4171 Aerobics 2 hrs
PET 4083C Practical Fitness Training 4 hrs
ZOO 3736C Exercise Physiology Anatomy 4 hrs

Other Requirements

No grades below "C-" (1.75) are accepted.
No grades below "C-" (1.75) are accepted.

A minimum overall GPA of 2.5 is required. A minimum grade of "C" (2.0) is required in all Health Professions coursework. A grade of "C" (2.0) or better is required in all Health Professions coursework. A grade of "C" (2.0) is required in all Health Professions coursework.

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.

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.

A minimum GPA of 2.5 is required. A minimum grade of "C" (2.0) is required in all Health Professions courses.

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.
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.
No credit by exam (TSD, Military credit) may be used.

Internship or Independent Study credit cannot be used toward the minor.
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 2 210
Thomas Falen, 407-823-2369
Email: tfalen@mail.ucf.edu

Credit Hour Requirements 18 hrs
Required Courses (15 hrs)
HSA 3111 U.S. Health Care Systems 3 hrs
HSA 4201 Community Health Services 3 hrs
HSA 4180 Org and 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 4653 Health Care Ethics or
HSA 4109 Managed Care or
HSA 4502 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 2.0 in all courses used to satisfy the minor.
■ At least 12 credit hours used in the minor must be earned at UCF within the College.
■ No credit by exam (TSD, Military credit) may be used in the minor.
■ It is the responsibility of the student to take whatever steps are necessary to determine if they have been officially dropped from a course. This does not remove the student’s responsibility for dropping courses they do not intend to complete.
■ Final exams will be given during Final Exam Week only.
■ Internship or Independent Study credit cannot be used toward the minor.

HISTORY: Minor
College of Arts and Sciences
Department of History, CNH 551
http://pegasus.cc.ucf.edu/~history/history.ucf.edu
Edmund F. Kallina, 407-823-2224

Credit Hour Requirements 18 hrs
Restricted Upper Division Electives (15 hrs)
Five upper division courses taught within the History Department

History Elective (3 hrs)
Any course taught within the History Department

Other Requirements
■ A grade of “C-” (1.75) or better is required in all courses used to satisfy the minor.
■ At least 12 hours used in the minor must be earned at UCF within the department.
■ No credit by exam (TSD, Military credit) may be used without academic advisor’s approval.
■ Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental approval.

HOSPITALITY MANAGEMENT: Minor
Rosen 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
HFT 3431 Hospitality Managerial Accounting
HFT 2600 Hospitality Marketing
HFT 2220 Hospitality Human Resource Mgmt
HFT 3444 Hospitality Information Systems
HFT 3600 Legal Environment in Hospitality
HFT 4462 Hospitality Industry Finance
HFT 4286 Hospitality Communications

Choose any two courses from the following: (6 hrs)
HFT 3700 Tourism Management
HFT 3261 Restaurant Management
HFT 3273 Principles of Resort Time Sharing
HFT 4755 Theme Park & Attraction Mgmt 3 hrs
HFT 2750 Meetings/Conv/Expo 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 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 in the minor.
■ It is the responsibility of the student to take whatever steps are necessary to determine if they have been officially dropped from a course. This does not remove the student’s responsibility for dropping courses they do not intend to complete.
■ Final exams will be given during Final Exam Week only.
■ Internship or Independent Study credit cannot be used toward the minor.

HUMANITIES: Minor
College of Arts and Sciences
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy/philosophy@ucf.edu
Bruse Janz, 407-823-2273

A multicultural minor focusing on the art, literature, philosophy, and religion of various world cultures. This minor is intended to provide a limited, yet substantive, introduction to humanities themes related to knowledge, responsibility, and society. Students interested in the Liberal Arts major may find this minor particularly helpful. In consultation with a departmental advisor, student will select courses in accordance with the distributions listed below.

Credit Hour Requirements 21 hrs

Humanities Foundations 6 hours
Select two courses:
HUM 3431 Ancient Humanities
HUM 3435 Medieval Humanities
HUM 3255 Modern Humanities
HUM 3251 Contemporary Humanities

Humanistic/Religious Traditions 6 hours
Select two courses:
HUM 3401 Asian Humanities
HUM 3417 Hindu Thought and Culture
HUM 3419 Islamic Thought and Culture
HUM 3552 Christian Thought
HUM 3553 Moses, Jesus and Muhammad
ANT 3245 Native American Religions
JST 3401 The Jewish People

Applications 6 hours
Select two courses:
PHI 3803 Philosophy and Creativity
PHI 3033 Philosophy, Religion, and the Environment
PHM 3123 Feminist Theories
REL 3162 Healing: Culture, Art, and Praxis
REL 3115 Religion, Spirituality, and Popular Music
REL 3111 Religion and Philosophy through Film
HUM 4554 Religious Quest and the Human Dilemma
HUM 4330 Performance Theory
PHI 3022 Sexuality, Gender & Philosophy
PHI 3638 Ethical Issues in the 21st Century
PHI 4321 Philosophies of Embodiment: Mind/Body/Self

Upper Division Restricted Elective 3 hours
Select one additional course from the above list or from the following:
HUM 3220 Contemporary Multicultural Studies
HUM 4301 Classical Ideal
HUM 4303 Spiritual Ideal
PHI 4804 Critical Theory
PHI 3800 Aesthetics
PHI 3700 Philosophy of Religion
CLA 3850 Classical Mythology
CLA 3851 Comparative Mythology

Other Requirements
■ A “C” (2.0) grade or better is required in all courses used to satisfy the minor.
■ At least 12 hours used in the minor must be earned at UCF within the department.
■ No credit by exam (TSD, Military credit) may be used in the minor.
■ It is the responsibility of the student to take whatever steps are necessary to determine if they have been officially dropped from a course. This does not remove the student’s responsibility for dropping courses they do not intend to complete.
■ Final exams will be given during Final Exam Week only.
■ Internship or Independent Study credit cannot be used toward the minor.
INTERNATIONAL BUSINESS: Minor for Business Majors
College of Business Administration
Office of Student Support, BA 240
Richard Ajayi, 407-823-5908

Credit Hour Requirements
Required Courses
- CEB 4361 Business in the International Env 3 hrs
- ECO 3703 International Economics 3 hrs
- FIN 4604 International Financial Management 3 hrs

Restricted Elective
- MAR 4156 International Marketing 3 hrs
- MAN 4600 International Management 3 hrs

Electives
- ANT 3212 People of the World 6 hrs
- ECS 4003 Comparative Economic Systems 3 hrs
- ECS 4013 Economic Development 3 hrs
- GEO 3470 World Political Geography 3 hrs
- INR 4035 International Political Economy 3 hrs
- INR 4041 International Law I 3 hrs
- INR 4224 Contemporary International Politics of Asia 3 hrs
- INR 4243 International Politics of Latin America 3 hrs

Special Topics Seminars in International Business, 3000/4000 level foreign language course.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) are not accepted. Students minoring in International Business must earn a grade of "C" (2.0) or better in each course applied toward the Minor.
- At least 12 hours used in the minor must be earned at UCF within the College of Business Administration.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

INTERPERSONAL COMMUNICATION: Minor
Nicholson School of Communication, COM 288

Credit Hour Requirements
Required Courses
- COM 3311 Communication Research Methods 3 hrs
- SPC 3301 Interpersonal Communication 3 hrs

Restricted Electives
- COM 3011 Communication and Human Relations 3 hrs
- SPC 4331 Nonverbal Communication 3 hrs
- SPC 4540 Attitudes and Communication 3 hrs
- SPC 4425 Group Dynamics 3 hrs
- COM 4461 Intercultural Communication 3 hrs
- COM 4462 Conflict Management 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the School of Communication.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit can be used toward the minor with prior approval.

ITALIAN: Minor
Modern Languages and Literatures, CNH 523

Credit Hour Requirements
Required Courses
- COP 3502C Computer Science I 3 hrs
- COP 3223 Intro to Programming with C 3 hrs
- COP 3520C Computer Science II 3 hrs
- COP 4604C Internals of Operating Systems 3 hrs

Restricted Electives
- Select 6 upper division courses in Italian, including the 3000- level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements
- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

JUDAIC STUDIES: Minor
Judaic Studies Program, CNH 201
E-mail: judaicst@ucf.edu
Moshe Pelli, 407-823-5039

The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The Program cooperates with the departments of English, Modern Languages, History, Philosophy, Political Science, and Sociology/Anthropology, and with the Liberal Studies and Women’s Studies Programs. Students who desire to minor in Judaic Studies are encouraged to meet with the program director. The certificate in Judaic Studies will be awarded to students completing 15
LATIN AMERICA AREA STUDIES: Minor
College of Arts and Sciences
VAB 203
(407) 823-1173 or 1174
Dr. Luis Martínez-Fernández, Program Director
martfern@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

Required Courses (or proficiency)

- HBR 1120 Elementary Modern Hebrew Language and Culture I
- HBR 1121 Elementary Modern Hebrew Language and Culture II

Restricted Upper Division Electives (15 hrs)

- JST 3144 Dead Sea Scrolls
- JST 3401 The Jewish People I
- JST 3402 The Jewish People II
- JST 3550 Introduction to Modernism into Judaism
- JST 3701 History of the Holocaust

Other Requirements

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

Legal Studies: Minor
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPA 311
David B. Slaughter, 407-823-2603
E-mail: dslaught@mail.ucf.edu

Credit Hour Requirements

Required Courses

- PLA 3013 Law and the Legal System

Restricted Upper Division Electives (15 hrs)

- 15 semester hours of law-related courses selected with the aid of an advisor.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF with the aid of an advisor.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.
MAGAZINE JOURNALISM: Minor

College of Arts and Sciences
Nicholson School of Communication, COM 258
http://www.cas.ucf.edu/communication
journalism@ucf.edu
Dr. Maria C. Santana, 407-823-2681

Prerequisites

- Grammar proficiency requirement required
- A minimum UCF GPA of 3.3

Credit Hour Requirements 18 hrs

Required courses (9 hrs)

- JOU 2100C News Reporting 3 hrs
- JOU 3510C Magazine Publishing 3 hrs
- JOU 4224C Magazine Editing and Production 3 hrs

Restricted Upper Division Electives (9 hrs)

- ENC 3310 Magazine Writing I
- JOU 3200 Editing I
- JOU 3202 Editing II
- JOU 4300 Feature Writing
- JOU 4308 Freelance Writing
- JOU 4340C New Media Studies

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 with-in the School of Communication.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

MANAGEMENT INFORMATION SYSTEMS: Minor

College of Business Administration
Department of MIS, BA 309
407-823-3174

Credit Hour Requirements 18 hrs

Prerequisite courses

- CGS 2100C Computer Fundamentals for Business or
- CGS 2060C Intro to Computer Science (or equivalent)
- MAC 1105 College Algebra or
- MGF 1106 Finite Mathematics

Required Courses (minimum 15 hrs)

- ISM 3011 Management Information Systems 3 hrs
- ISM 3214 Database Management Systems in Business 3 hrs
- ISM 3501 Essentials of Electronic Commerce 3 hrs
- ISM 3013 Introduction to InformationSystems Management 3 hrs
- ISM 3521 Business Applications 3 hrs

Electives (choose one) (minimum 3 hrs)

- ISM 3424 Computer-aided Decision Making 3 hrs
- ISM 3043 Technology and Society 3 hrs
- Any programming language course (minimum) 3 hrs

Other Requirements

- Courses in the MIS major may substitute for required and elective courses with approval of department chair.
- A grade of "C" (2.0) is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) are not accepted.
- At least 12 hours used in the minor must be earned at UCF.

Minor is not available to MIS Majors

- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

MARKETING: Minor

(Open to Business and Non-Business Students)

College of Business Administration
Department of Marketing, BA2 307S

Credit Hour Requirements 18 hrs

Required Courses (3 hrs)

- MAR 3023 Marketing

Restricted Electives 12-15 hrs

Select four or five:

- MAR 3323 Integrated Marketing Communication
- MAR 3391 Professional Selling
- MAR 3403 Sales Force Management
- MAR 3503 Customer Behavior
- MAR 3613 Marketing Analysis and Research
- MAR 3641 Marketing Intelligence
- MAR 3880 e-Marketing
- MAR 4156 International Marketing
- MAR 4724 Strategic Foundations in Global e-Business
- MAR 4821 Retailing Management
- MAR 4711 Sport Marketing
- MAR 4712 Healthcare Marketing
- MAR 4715 Entertainment Marketing
- *MAR 4803 Marketing Management
- *MAR 4804 Marketing Strategy
- MAR 4841 Services Marketing

*Requires prerequisites in addition to MAR 3023

Restricted Non-Marketing Elective (0-3 hrs)

Three hours of coursework may be chosen outside of marketing from the list below. However, other courses outside Marketing will also be considered—approval by petition to the Department.

- ADV 3000, ANT 3640, COM 3011C, COM 3311, COM 3120, COM 3110, ENC 3211, EXP 3404, HSA 3111, PHI 3803, PPE 3003, PSY 3213C, RTV 3000, SOP 3004, SPC 3301, SPC 4331, SPC 4426, STA 4102, SYA 4300C, MAN 4720.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades from other institutions are not accepted.
- At least nine hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Independent Study, or Directed Research credit cannot be used toward the minor.

MASS COMMUNICATION: Minor

College of Arts and Sciences
Nicholson School of Communication, COM 228
http://www.cas.ucf.edu/communication
communication@ucf.edu
M. A. Shaver, 407-823-2681

Credit Hour Requirements 18 hrs

Restricted Electives 18 hrs

Select from the following:

- MMC 2004 Mass Media
- ADV 3000 Principles of Advertising
- COM 3330 Computer Mediated Communication
- FIL 2400 History of Motion Pictures
- FIL 3006 Art of the Cinema
- FIL 3410 History of Animated Films I
- JOU 3004 History of American Journalism
- MMC 3420 Mass Media Research Methods
- MMC 4200 Mass Communication Law
- MMC 4300 International Media
- PUR 4000 Public Relations
- RTV 3000 Development and Structure of Electronic Media
- RTV 3200 Production Fundamentals and Aesthetics of Electronic Media
- RTV 4403 Electronic Media, Technology and Society

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor with prior approval.

- *MAR 4803 Marketing Management
- *MAR 4804 Marketing Strategy
- MAR 4841 Services Marketing

*Requires prerequisites in addition to MAR 3023

Internship, Independent Study, or Directed Research credit cannot be used toward the minor.
**MINORS**

**MATHEMATICS: Minor**

**College of Arts and Sciences**

**Department of Mathematics, MAP 207**

http://math.ucf.edu

m ath@mail.ucf.edu

H. Martin, MAP 231F, 407-823-5700,

E-mail: martin@math.ucf.edu

Credit Hour Requirements 21 hrs

Required Courses (15 hrs)

- MAC 2311 Calculus with Analytic Geo I 4 hrs
- MAC 2312 Calculus with Analytic Geo II 4 hrs
- MAC 2313 Calculus with Analytic Geo III 4 hrs
- MAP 2302 Differential Equations 3 hrs

(MAC 2311 and 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)

These Restricted Electives must be taken from the Department of Mathematics at UCF and must include one course at the 4000-5000 level.

- MAA XXXX (any 3000, 4000, or 5000 level course)
- MAD XXXX (any 3000, 4000, or 5000 level course)
- MAP XXXX (any 3000, 4000, or 5000 level course, except MAP 3401)
- MAS XXXX (any 3000, 4000, or 5000 level course)
- MTG XXXX (any 3000, 4000, or 5000 level course)

Any mathematics Honors courses that are approved for this purpose by the Department Standards Committee.

(Either MAS 3105 or MAS 3106 may be used but not both. Courses may be selected from MAA 4226 and MAA 4227, or MAA 5210 but not both.)

**Other Requirements**

- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.
- At least 6 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

**MIDDLE EASTERN STUDIES: Minor**

**College of Arts and Sciences**

**Middle Eastern Studies Program, CNH 201**

http://www.cas.ucf.edu/liberal_studies

The Liberal Studies Advising Team, 407-823-0144

John Berensia, 407-823-0687

Roger Handberg, 407-823-2608

Janan Smith, 407-823-5859

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 (15 hrs)

- CPO 3603 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
- PHIL 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.

**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 3202C Leadership and Ethics 3 hrs
- MSL 4301C Leadership and Management 3 hrs
- MSL 4302C Officership 3 hrs

Select one of the following:

- AMH 3541 U.S. Military History to 1900 3 hrs
- AMH 3547 U.S. Military History since 1900

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

**MOLECULAR BIOLOGY AND MICROBIOLOGY: Minor**

**Burnett College of Biomedical Sciences**

**Department of Molecular Biology and Microbiology, HPA2 335, 407-823-5932**

http://www.biomed.ucf.edu

Assistant Chair: Roseann White

Program Coordinator: Dorilyn Hitchcock

Credit Hour Requirements 30 hrs

Required Courses

- BSC 2010C Biology I 4 hrs
- MCB 3020C General Microbiology 5 hrs
- PCB 3233 Immunology (or PCB 4239 Molecular Immunology 3 hrs)
- PCB 3233L Immunology Laboratory 1 hr
- PCB 3522 Molecular Biology I 3 hrs
- PCB 4524 Molecular Biology II 3 hrs
- BSC 3403C Quantitative Biological Methods 4 hrs

Restricted Electives (7 hrs)

At least two courses from the Restricted Elective category of the baccalaureate curriculum.

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

**MUSIC: Minor**

**College of Arts and Sciences**

**Department of Music, CNH 205**

http://www.cas.ucf.edu/music/

music@ucf.edu

http://www.music.ucf.edu

J. Pherigo, 407-823-2869

Credit Hour Requirements 21 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

- A grade of “C” or above (2.0) is required in each course for the minor.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

**INTERNATIONAL AND AREA STUDIES: Minor**

2005-2006 Undergraduate Catalog
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NORTH AMERICAN INDIAN STUDIES: Minor
College of Arts and Sciences
Department of Sociology and Anthropology, PH 403
David E. Jones, 407-823-2227

The North American Indian Studies minor will develop a more sophisticated understanding and appreciation of the history and culture of the North American Indians. The minor is especially appropriate for all UCF undergraduates.

Minor Requirements:
- Interview with the North American Indian Studies Director.
- Consultation with the Director to develop a program of study and plan course selections.
- Final approval of the minor is contingent upon completion of a thesis paper under the guidance of a faculty research director.

Credit Hour Requirements (18 hrs)

Required Courses
- ANT 3245 Religions of the North American Indians 3 hrs
- ANT 3313 Indians of the North American High Plains 3 hrs
- ANT 3311 Indians of the Southeastern United States 3 hrs
- ANT 3158 Florida Archaeology 3 hrs
- ANT 4906 Independent Study 3 hrs
- ANT 3314 Indians of the Northeast Woodlands 3 hrs
- AMH 3441 History of the Frontier: Eastern America 3 hrs
- AMH 4110 Colonial America 3 hrs
- AMH 4112 The Atlantic World 3 hrs
- AML 3640 Native American Literature 3 hrs
- ANT 4153 North American Archaeology 3 hrs
- SYD 3752 Modern Law in Indian Country 3 hrs
- SYD 3751 North American Indian Women Today 3 hrs
- SYD 3750 Contemporary Social Issues and North American Indians 3 hrs

Restricted Electives
- Select two courses from the following list.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.

ORGANIZATIONAL COMMUNICATION: Minor
College of Arts and Sciences
Nicholson School of Communication, COM 258
communication@ucf.edu
TRA, 407823-2681; Advising: See department.

Credit Hour Requirements (21 hrs)

Required Courses
- COM 3120 Organizational Communication 3 hrs
- COM 3311 Communication Research Methods 3 hrs

Restricted Upper Division Electives (15 hrs)
- COM 301C Communication and Human Relations 3 hrs
- COM 3110 Business and Professional Communication 3 hrs
- SPC 3425C Group Interaction and Decision-Making 3 hrs
- COM 4161 Intercultural Communication 3 hrs
- COM 4162 Conflict Management 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.

PHILOSOPHY: Minor
College of Arts and Sciences
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy
philosophy@ucf.edu
TBA, 407-823-2273

The Philosophy minor is intended to provide a limited, yet substantive, introduction to 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)

Philosophical Foundations: 18 hrs
- PHI 2011 Philosophical Reasoning 3 hrs
- PHI 2101 Critical Thinking 3 hrs
- PHI 2101 Formal Logic I 3 hrs

Ethics
- PHI 3670 Ethical Theory 3 hrs

Knowledge
- PHI 3220 Philosophy of Mind 3 hrs
- PHI 4341 Ways of Knowing 3 hrs
- PHI 4300 Theories of Knowledge 3 hrs

Disciplinary and Interdisciplinary Knowing
- PHI 3401 Philosophy of Law 3 hrs
- PHI 3700 Philosophy of Religion 3 hrs
- PHI 4400 Philosophy of Science 3 hrs
- PHI 4420 Philosophy of Social Science 3 hrs
- PHI 3451 Philosophy of Psychology 3 hrs
- PHI 3800 Aesthetics 3 hrs

Applications
- PHI 3322 Philosophy of the Social Sciences 3 hrs
- PHI 4341 Philosophy of Mind 3 hrs
- PHI 3670 Ethical Theory 3 hrs
- PHI 3700 Philosophy of Religion 3 hrs
- PHI 4400 Philosophy of Science 3 hrs
- PHI 4420 Philosophy of Social Science 3 hrs
- PHI 3451 Philosophy of Psychology 3 hrs
- PHI 3800 Aesthetics 3 hrs

Select one course from each of the following groups:

Reasoning
- PHI 2011 Philosophical Reasoning 3 hrs
- PHI 2101 Critical Thinking 3 hrs
- PHI 2101 Formal Logic I 3 hrs

Ethics
- PHI 3670 Ethical Theory 3 hrs

Knowledge
- PHI 3220 Philosophy of Mind 3 hrs
- PHI 4341 Ways of Knowing 3 hrs
- PHI 4300 Theories of Knowledge 3 hrs

Disciplinary and Interdisciplinary Knowing
- PHI 3401 Philosophy of Law 3 hrs
- PHI 3700 Philosophy of Religion 3 hrs
- PHI 4400 Philosophy of Science 3 hrs
- PHI 4420 Philosophy of Social Science 3 hrs
- PHI 3451 Philosophy of Psychology 3 hrs
- PHI 3800 Aesthetics 3 hrs

Applications
- PHI 3322 Philosophy of the Social Sciences 3 hrs
- PHI 4341 Philosophy of Mind 3 hrs
- PHI 3670 Ethical Theory 3 hrs
- PHI 3700 Philosophy of Religion 3 hrs
- PHI 4400 Philosophy of Science 3 hrs
- PHI 4420 Philosophy of Social Science 3 hrs
- PHI 3451 Philosophy of Psychology 3 hrs
- PHI 3800 Aesthetics 3 hrs

Select two courses
- PHI 4400 Philosophy of Science 3 hrs
- PHI 4420 Philosophy of Social Science 3 hrs
- PHI 3451 Philosophy of Psychology 3 hrs
- PHI 3800 Aesthetics 3 hrs

Upper Division Restricted Elective
- PHI 3999 Independent Study or Special Topics course if approved by the coordinator prior to enrolling in the class

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the School of Communication.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit can be used toward the minor with prior approval.

http://www.cas.ucf.edu/philosophy
PHILOSOPHY, RELIGION AND POPULAR CULTURE: Minor
College of Arts and Sciences
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy
philosophy@ucf.edu
Advisor (UCF Orlando Campus) Bruce Jans, 407-823-2273
Fax: 407-823-6658;
Advisor (Cocoa Campus) Shelley Park;
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

Note: Appropriate special topics in philosophy or humanities may be substituted for some core courses with prior approval by department advisor.

Theoretical Foundations (6 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 3684</td>
<td>Ways of Living</td>
</tr>
<tr>
<td>PHI 4541</td>
<td>Ways of Knowing</td>
</tr>
</tbody>
</table>

Philosophy (3 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 2101</td>
<td>Critical Thinking</td>
</tr>
<tr>
<td>PHI 3670</td>
<td>Ethical Theory</td>
</tr>
<tr>
<td>PHI 3700</td>
<td>Philosophy of Religion</td>
</tr>
<tr>
<td>PHI 3800</td>
<td>Aesthetics</td>
</tr>
<tr>
<td>PHI 3100</td>
<td>Freedom and Justice</td>
</tr>
<tr>
<td>PHI 3720</td>
<td>Faith and Reason</td>
</tr>
<tr>
<td>PHI 3760</td>
<td>Existentialism</td>
</tr>
<tr>
<td>PHI 4804</td>
<td>Critical Theory</td>
</tr>
<tr>
<td>PHI 4300</td>
<td>Theories of Knowledge</td>
</tr>
</tbody>
</table>

Religion (3 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLA 3851</td>
<td>Comparative Mythology</td>
</tr>
<tr>
<td>HUM 3552</td>
<td>Christian Thought</td>
</tr>
<tr>
<td>HUM 3553</td>
<td>Moses, Jesus, and Mohammed</td>
</tr>
<tr>
<td>HUM 3417</td>
<td>Hindu Thought and Culture</td>
</tr>
<tr>
<td>HUM 3419</td>
<td>Islamic Thought and Culture</td>
</tr>
<tr>
<td>HUM 4303</td>
<td>The Spiritual Ideal</td>
</tr>
<tr>
<td>HUM 4654</td>
<td>Religious Quest and Human Dilemma</td>
</tr>
<tr>
<td>PHI 3750</td>
<td>The Problem of Evil</td>
</tr>
</tbody>
</table>

Popular Culture Studies (9 hrs)

A. Contemporary Media

Select at least one course.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 3320</td>
<td>Contemporary Multicultural Studies</td>
</tr>
<tr>
<td>HUM 4516</td>
<td>Religion and the Arts</td>
</tr>
<tr>
<td>HUM 4330</td>
<td>Performance Theory</td>
</tr>
<tr>
<td>PHI 3625</td>
<td>Virtual Ethics</td>
</tr>
<tr>
<td>PHI 4931</td>
<td>Philosophy In the News</td>
</tr>
<tr>
<td>POS 3235</td>
<td>Mass Media and Politics</td>
</tr>
<tr>
<td>POS 3258</td>
<td>Politics in Film</td>
</tr>
<tr>
<td>REL 3115</td>
<td>Religion, Spirituality and Popular Music</td>
</tr>
<tr>
<td>REL 3111</td>
<td>Religion and Philosophy through Film</td>
</tr>
<tr>
<td>SYP 3630</td>
<td>Sociology of Popular Culture</td>
</tr>
</tbody>
</table>

B. Contemporary Forms of Life

Select at least one course.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 3302</td>
<td>Sex, Gender and Culture</td>
</tr>
<tr>
<td>HUM 3251</td>
<td>Contemporary Humanities</td>
</tr>
<tr>
<td>PHI 3022</td>
<td>Sex, Gender and Philosophy</td>
</tr>
<tr>
<td>PHI 3029</td>
<td>Family Values</td>
</tr>
<tr>
<td>PHI 3033</td>
<td>Philosophy, Religion and me Environment</td>
</tr>
<tr>
<td>PHM 3401</td>
<td>Philosophy of Law</td>
</tr>
<tr>
<td>PHI 3638</td>
<td>Ethical Issues in the 21st Century</td>
</tr>
<tr>
<td>PHI 3683</td>
<td>Philosophy of Friendship</td>
</tr>
<tr>
<td>PHM 3123</td>
<td>Feminist Theories</td>
</tr>
<tr>
<td>PHI 4321</td>
<td>Philosophies of Embodiment: Mind/Body/Self</td>
</tr>
<tr>
<td>REL 3131</td>
<td>Religion In America</td>
</tr>
<tr>
<td>REL 3162</td>
<td>Healing Culture, Art, and Praxis</td>
</tr>
</tbody>
</table>

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 Arts and 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 (11 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 2048</td>
<td>Physics for Eng and Sci I</td>
</tr>
<tr>
<td>PHY 2048L</td>
<td>Physics Laboratory for Eng and Sci I</td>
</tr>
<tr>
<td>PHY 2049</td>
<td>Physics for Eng and Sci II</td>
</tr>
<tr>
<td>PHY 2049L</td>
<td>Physics Laboratory for Eng and Sci II</td>
</tr>
<tr>
<td>PHY 3101</td>
<td>Physics for Eng and Sci III</td>
</tr>
</tbody>
</table>

Restricted Upper Division Electives (9 hrs)

Selected from upper-level Physics lecture or laboratory courses appropriate for majors.

POLITICAL SCIENCE: Minor
College of Arts and Sciences
Department of Political Science, CNH 415
http://pegasus.cc.ucf.edu/~politics
politics@ucf.edu
Roger Handberg, 407-823-2608

Credit Hour Requirements 18 hrs

Required Course (3 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS 2041</td>
<td>American National Government</td>
</tr>
</tbody>
</table>

Restricted Upper Division Electives (15 hrs)

- Five upper division Political Science courses (selected with the aid of a departmental advisor)
- Only three hours of POS 4941 (Internship) may be counted

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior departmental permission.

POLITICAL SCIENCE/PRELAW: Minor
College of Arts and Sciences
Department of Political Science, CNH 415
http://pegasus.cc.ucf.edu/~politics
politics@ucf.edu
Roger Handberg, 407-823-2608

Credit Hour Requirements 20 hrs

Required Courses (6 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS 2041</td>
<td>American National Government</td>
</tr>
<tr>
<td>POS 4284</td>
<td>Judicial Process and Politics</td>
</tr>
</tbody>
</table>

Restricted Elective (3 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INR 4401</td>
<td>International Law I</td>
</tr>
<tr>
<td>INR 4402</td>
<td>International Law II</td>
</tr>
<tr>
<td>POS 4603</td>
<td>American Constitutional Law</td>
</tr>
<tr>
<td>POS 4604</td>
<td>American Constitutional Law II</td>
</tr>
</tbody>
</table>

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.
Minors

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior departmental permission.

PSYCHOLOGY: Minor
College of Arts and Sciences
Psychology Department, PH 302
http://www.psych.ucf.edu/
E-mail: psychology@ucf.edu
R. Dipboye, 407-823-2216
Undergraduate Advising: Psychology Advising Center, PH 305G, 407-823-2219

The Psychology Department offers minors in several emphasis areas: Clinical Psychology, Human Factors Psychology, and Industrial/Organizational Psychology. The guiding principle in design of a minor is to select those Psychology courses which will strengthen the graduate school preparation and/or the marketability of the student’s major program. Emphasis areas will not appear on the transcript.

Credit Hour Requirements 22 hrs
Required Courses (10 hrs)
- PSY 2012 General Psychology 3 hrs
- STA 204C Principles of Statistics or STA 2023 Statistical Methods I 3 hrs
- PSY 3213C 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
Dr. Ronnie L. Korosec, 407-823-2732
E-mail: rkorosec@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 4202 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 3 hrs
- ACG 2071 Principles of Managerial Accounting 3 hrs
- ECO 2013 Principles of Macroeconomics 3 hrs
- ECO 2023 Principles of Microeconomics 3 hrs

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 4732 Real Estate Development 3 hrs
- SEE 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 each course applied toward the requirements for the minor.
- 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 each course applied toward the requirements for the minor.

RELIGIOUS STUDIES: Minor
College of Arts and Sciences
Philosophy Department, CNH 411
http://www.cas.ucf.edu/philosophy
philosophy@ucf.edu
TBA, 407-823-2273

The religious studies minor provides a limited yet coherent range of courses which introduce the student to a range of religious institutions and ideas. Courses are drawn from the departments of Anthropology & Sociology, Art, English, History, Judaic Studies, Philosophy, Political Science, and Psychology, and are to be selected in consultation with the Religious Studies advisor.

Credit Hour Requirements 21 hrs
Required Courses (18 hrs)
- REL 2300 World Religions 3 hrs
- REL 4xxx World Religions 3 hrs

Other Requirements
- A student minoring in religious studies 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 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or independent study credit cannot be used toward the minor.
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior approval by the Director.
Minors

SOCIAL SCIENCES - INTERDISCIPLINARY: Minor
College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
liberal_studies@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

Credit Hour Requirements 21-22 hrs
Required Courses (5-4 hrs)
One method course, selected from the three immediately below
POS 3703 Scope and Methods of Political Science
PST 2213C Research Methods in Psychology
SYA 4300 Research Methods

Restricted Electives (18 hrs)
Select a minimum of six hours in each of three different disciplines below. The courses below cannot overlap with your major discipline.
Communication
Economics
Political Science
Public Administration
Psychology
Sociology & Anthropology

Other Requirements
- Students must earn a grade “C” or above (2.0) in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF.
- At least 18 hours must be upper division classes.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

SOCILOGY: Minor
College of Arts and Sciences
Department of Sociology & Anthropology, PH 403
http://www.cas.ucf.edu/soc_anthro/firstpage.html
sociology@ucf.edu
Jay Corzine, 407-823-2227

Credit Hour Requirements 18 hrs
Required Courses (3 hrs)
SYG 2000 General Sociology

Restricted Electives (3 hrs)
2000-4000 level Sociology courses

Restricted Upper Division Electives (12 hrs)
3000-4000 level Sociology courses

Other Requirements
- Earn a minimum GPA of at least 2.0 in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Co-op or internship credit cannot be used toward the minor.
- No more than 3 hours of Independent Study credit can be used toward the minor.

SPACE STUDIES: Minor
College of Engineering and Computer Science
Department of Mechanical, Materials and Aerospace Engineering, ENGR 307
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
EGN 4015C ST. Space Science and Technology
GEOL 4131C Remote Sensing of the Environment

Restricted Electives (12 hrs)
EAS 3010 Fundamentals of Aerospace Flight
EAS 3101 Fundamentals of Aerodynamics

Other Requirements
- Formal declaration of the minor should occur before nine credit hours have been completed.
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

SPANISH: Minor
College of Arts and Sciences
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
- 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 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 20 Hrs
Required Courses 8 Hrs
MSB 2XX1 Introduction to Sport Business Management 3 Hours
MSB 3XX2 Diversity and Social Issues in Sport Business Management 3 Hours
MSB 3XX3 Ethics in Sport Business 2 Hours

Restricted Electives 12 Hours
MSB 4XX1 Event and Facility Management 3 Hours
MSB 4XX2 Intercollegiate Sport Industry 3 Hours
MSB 4XX3 Professional Sport Industry 3 Hours
MSB 4XX4 Sport Business Law 3 Hours
MSB 4XX5 Sport Business and Media 3 Hours
MSB 4XX6 Sport Policy 3 Hours
MAR 4711 Sports Marketing 3 Hours

Other Requirements:
- Students minoring in Sport Business Management must earn a
grade of "C" (2.0) or better in each course applied toward the minor, and a minimum GPA of 2.5 is required in all courses used 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 Sport 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.

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 18 hrs
STA 2023 Statistical Methods I 3 hrs
or
STA 3032 Probability and Statistics for Engineers
STA 4163 Statistical Methods II 3 hrs
STA 4164 Statistical Methods III 3 hrs
Restricted Upper Division Electives (9 hrs)
STA 3xxx-4xxx courses
(STA 2023 or STA 3032 or the equivalent cannot be used as a restricted elective)
Other Requirements
- A minimum grade of "C" (2.0) is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

TECHNICAL EDUCATION and INDUSTRY TRAINING: Minor
College of Education
Department of Teaching and Learning Principles, ED 209
http://reach.ucf.edu/~voced
Dr. Larry Hudson, ED 122-T, 407-823-2848
Email: lhudson@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 27 hrs
Entrance requirements
Junior standing.
Required courses 18 hrs
ADE 4382 Teaching Adult Learners 3 hr
ETV 4386 Advanced Teaching Techniques 3 hr
in Vocational Education
ETV 3062 Professional role of the Vocational Teacher 3 hr
ETV 3367 Evaluation in Vocational Education 3 hr
ETV 4169 Curriculum Development for Industry Training 3 hr
ETV 4065 Principles and Practices in Vocational Education 3 hr
Other requirements
- A minimum of 4 courses of the 6 required must be completed at UCF within the Program of courses listed above.
- A grade of "C" (2.0) or better must be achieved in each course used for this Minor.
- Internship, Co-op, or Independent Study credit cannot be used towards this Minor.
- No Military credit can be used toward this Minor.
- Completion of this Minor does not complete requirements for certification as a Vocational Education teacher nor does it consti-
ute 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 4005 Technical Economic Analysis
ETI 4025 Applied Logistics
ETI 4635 Technical Administration
ETI 4700 Occupational Safety
ETI 4836 Space Systems Technology
GEO 2370 Resources Geography
LIT 3313 Science Fiction
LIT 4433 Survey of Technical and Scientific Literature
PUP 3203 Environmental Politics
PUP 4503 Government and Science
PUP 4510 Space Policy
Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF 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 Sciences
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 and audition or portfolio review
Required Courses (27 hrs)
Note: The number assigned many courses will change.
Use the Prefix and title to determine the proper course.
THE 2000 Theatre Survey 3 hrs
THE 2090* Theatre Production/Performance I 1 hr
THE 3303 Play Analysis 3 hrs
THE 2091* Theatre Production/Performance II 1 hr
THE 3110 Theatre History I 3 hrs
THE 3111 Theatre History II 3 hrs
THE 3305 Dramatic Literature I 3 hrs
THE 2271 Performance Studies 3 hrs
THE 3306 Dramatic Literature II 3 hrs
TPA 2201 Technical Theatre Production 3 hrs
* Course must be taken at UCF
Other Requirements
- Participation on a minimum of one departmental production during both the Fall and Spring terms for four semesters
- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.
- At least 18 hours used in the minor, including those marked by an asterisk, must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
Minors

URBAN AND REGIONAL PLANNING: Minor
College of Health and Public Affairs
Department of Public Administration, HPA2 238
Dr. Ronnie Korosec, 407-823-2604
Email: rKorosec@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
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 2453 Community and Economic Development 3 hrs
- PAD 4803 Issues in Urban Administration 3 hrs

Suggested Courses
Students in the Minor program are encouraged to take the following courses as electives to enhance their understanding of the field.
- ECP 3433 Transportation Economics
- ECP 4603 Urban and Regional Economics
- TTE 4004 Transportation Engineering

Other Requirements
- A minimum grade of “C” (2.0) is required in each course used to satisfy the minor.
- At least 15 hours used to satisfy the minor must be earned at UCF within the department.
- Internship or Independent Study credit cannot be used toward the minor.
- No credit by exam (TSD, Military credit) may be used.

WOMEN’S STUDIES: Minor
College of Arts and Sciences
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
Required Core Courses (6 hrs)
- WST 3015 Introduction to Women’s Studies 3 hrs
Select one course:
- PHM 3123 Feminist Theories 3 hrs

Upper Division Electives (12 hrs)*
Select two courses in each of two areas listed 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 3283 Contemporary American Women’s Fiction
  - ARH 4902 Women in Art
  - COM 4014 Gender Issues in Communication
  - FIL 3309 Women in Film
  - LIT 3383 Women in Literature
- Women's Wellness
  - NUR 4936 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 Am
  - CCJ 4670 Women and Crime
  - CCJ 4681 Domestic Violence and Justice System
  - CPD 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
  - SYO 4100 Family Trends
  - WST 3500 Genders Issues in Community Activism

* Students may be allowed to take one course from a list of restricted courses.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without approval of the program coordinator.
- No more than one 2000 level course can be used toward the minor.
CERTIFICATES

ADDITIONS: Certificate
College of Health and Public Affairs
School of Social Work, HPA1 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:
- SOW 4706 Interventions with Substance Abusers 3 hrs
- SOW 3352 Practice II: Interpersonal Skills 3 hrs
- SOW 4341 Micro-Level Roles and Interventions 3 hrs

Restricted Electives:
- Select one from the following:
  - SOW 4705 Prevention and Treatment of Adolescent Substance Abuse 3 hrs
  - SOW 4906 Independent Study in Addictions – (i.e. Women in Treatment, Drug Control Policy, etc.; Can be taught by any faculty teaching one of the above courses)

- CCJ 4651 Drugs and Crime 3 hrs

AGING STUDIES: Certificate
College of Health and Public Affairs
School of Social Work, HPA1 204
BSW Coordinator, HPA1 204, 407-823-2114

In recognition of the special needs of the elderly citizens of Central Florida, the University offers a fifteen-hour interdisciplinary program leading to a Certificate in Aging Studies. The certificate is open to all students in any major. The program may be a particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education, or art education. All students must contact the coordinator for planning their internship.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements
15 hrs

Required Course
- GEY 3001 Gerontology: Interdisciplinary Overview 3 hrs

Required Internship
- Select one 120 hrs
  - SOW4510 Field Education 3 hrs
  - HSA 4941 Internship 3 hrs
  - PSY3061 Internship 3 hrs
  - SYP 4941 Internship 3 hrs

Electives
- (9 hrs)
  - Students select three additional courses from the following: A maximum of two courses in their major and at least one course must be outside their college.

College of Health and Public Affairs
- HSA 4220 Long Term Care 3 hrs
- HSA 3222 Long Term Administration 3 hrs
- HSC 4564 Health Care Needs of the Elderly 3 hrs
- NUR 4266 Gerontologic Nursing 3 hrs

- PLA 4932 Legal Issues of the Elderly 3 hrs
- SOW 4645 Social Services for the Elderly 3 hrs

College of Arts & Sciences
- DEP 3464 Psychology of Aging 3 hrs
- SYP 4730 Sociology of Aging 3 hrs
- GEY 3990 Women and Aging 3 hrs
- SYP 3930 3 hrs
- LIT 3980 Literature of Aging 3 hrs
- SYP 4734 Minority Aging 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 12 hours used in the certificate must be earned at UCF within the department.
- No credit by exam (TSD, Military credit), may be used.
- Independent Study cannot be used toward the minor.

AMERICAN SIGN LANGUAGE (ASL): Certificate
College of Health and Public Affairs
Department of Communicative Disorders, HPA-2, Suite 101
http://www.cohpa.ucf.edu/comdis
Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798
Email: jschwart@mail.ucf.edu

This certificate is designed to provide students with the conversational competency in ASL to communicate with deaf and hard of hearing individuals who use ASL as their primary mode of communication. In addition, students completing the certificate program would have the prerequisite skills to seek further instruction in Interpreter Education. More specifically, the certificate program is designed for undergraduate students majoring in Communicative Disorders, general and special education, psychology, theater, the health professions, and other disciplines; students at area community colleges; professionals working in Central Florida; and, the general public who wish to enhance their ability to communicate with the deaf community and to enhance their employment potential.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements
14 hrs

Required Courses
- SPA 4602 Introduction to American Sign Language 3 hrs
- SPA 4603 Intermediate American Sign Language 3 hrs
- SPA 4614C American Sign Language III 4 hrs
- SPA 4615 American Sign Language IV 4 hrs

Other Requirements
- A minimum grade of "C-" (1.75) is required in each course.
- 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 Arts and Sciences
Psychology Department, PH 302
http://pegasus.cc.ucf.edu/~psych
kmottare@ucf.edu
K. Mottarella; 321-433-7892

Credit Hour Requirements
27 hrs

Prerequisite Courses
- (6 hrs)
  - PSY 2012 General Psychology or GEP
  - SYG 2000 General Sociology
  - PPE 3003 Personality Theories 3 hrs
  - SYP 3500 Soci of Deviant Behavior 3 hrs

Required Courses
- (12 hrs)
  - CLP 4390 Forensic Psychology 3 hrs
  - SOP 3751 Legal Aspects of Psyh 3 hrs
  - SYP 3520 Criminology 3 hrs
  - SYP 3540 Sociology of Law 3 hrs

Restricted Electives
- (9 hrs)
  - Note: It is the student’s responsibility to meet all prerequisites for any course selected
  - From Psychology, select one of the following:
    - CLP 3143 Abnormal Psychology

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Certificates

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
CJE 4616  Criminal Profiling in CJ
CJE 3667  Victims and the CJ System
CJE 4681  Domestic Violence & the Justice Syst
CJE 4690  Sex Offenders & the CJ System

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the certificate.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the certificate must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the certificate.

CHILDREN’S SERVICES: Certificate

College of Health and Public Affairs
School of Social Work, HPA1 204

BSW Coordinator, 407-823-2114

The Children’s Services Certificate is designed to prepare Social Work students to work with children and families who are facing issues of abuse or neglect, or are involved in some way with the child welfare system. Students learn to assess abuse and neglect and to develop appropriate ways to work with the families and elements of the child welfare system. The certificate includes both classroom academic work and a specialized field internship. The program is a joint effort between the Schools of Social Work in Florida and the Department of Children and Families to improve services to children and their families.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 18 hrs

Required Courses
SOW 3552  Practice II: Interpersonal Skills 3 hrs
SOW 4654  Children’s Services 3 hrs
SOW 4650  Child Abuse: Treatment & Prevention 3 hrs
SOW 4510  Field Education* 9 hrs

* Placement with the Department of Children and Families-working with child welfare or placement in an agency that serves children.

NOTE: Students need to discuss their interest in the certificate with the field office while arranging for their BSW placement.

CRIME ANALYSIS AND CRIME MAPPING: Certificate

College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPA1 311

Cory Watkins, 407-823-0365
E-mail: nwatkins@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  Data Management Systems for Crime Analysis 3 hrs
CJE 4663  Crime Analysis I 3 hrs
CCJ 4076  Crime Analysis II 3 hrs

Restricted Upper Division Electives (6 hrs)
Select two of the following:
CCJ 3451  Justice System Technology 3 hrs
CJE 3444  Crime Prevention 3 hrs
CJE 4654  Crime and Place 3 hrs
CCJ 3450  Criminal Justice Manager 3 hrs
Fabianic@mail.ucf.edu
John J. Schultz, 407-823-2618

CRIME SCENE INVESTIGATION: Certificate

College of Health and Public Affairs
College of Arts and Sciences
Department of Criminal Justice and Legal Studies, HPA1 311; Department of Sociology and Anthropology, PH 403

David Fabianic, 407-823-5940
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. Treatment of the initial crime scene is fundamental not only to the pursuit of offenders but also to the presentation of the prosecutor’s case once offenders have been apprehended. The certificate program is a means of organizing information required to perform basic crime scene investigations. It provides theoretical and practical information used to assess crime scenes, the technology available and the procedures to employ in order to produce a forensically valuable product. The program requires 15 credit hours of undergraduate work.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 15 hrs

Required Courses (12 hrs)
SYP 3511  Sociology of Murder 3 hrs
SYP 3562  Soc Perspectives on Domestic Violence 3 hrs
CJE 4654  Crime Analysis I 3 hrs
CJE 4663  Crime Analysis II 3 hrs
CJT 4100  Criminal Investigation 3 hrs

Restricted Upper Division Electives (3 hrs)
Select one of the following:
ANT 4528C  Advanced Forensic Anthropology 5 hrs
SYP 3511  Sociology of Murder 3 hrs
CJE 4654  Crime Analysis I 3 hrs
CJE 4663  Crime Analysis II 3 hrs
CCJ 4195  Interviews and Interrogations in CJ 3 hrs
CHS 3501  Introduction to Forensic Science 3 hrs
ANT 3115  Archaeological Method and Theory 3 hrs

Other Requirements
- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

CRIMINAL PROFILING: Certificate

College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPA1 311

David Fabianic, 407-823-5940
Fabianic@mail.ucf.edu

New and more sophisticated techniques and tools of criminal investigation are being developed to assist in meeting the challenges facing today’s law enforcement officers. One area that is becoming formalized in law enforcement is criminal profiling. The certificate program in Criminal Profiling is a way of organizing the fundamental information and education required for profiling. It provides both the theoretical and practical information related to the types of crimes for which profiling is most useful. The program requires 15 credit hours of undergraduate work.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 15 hrs
CULTURAL TOURISM: Certificate

College of Arts and Sciences
Office of Liberal and Interdisciplinary Studies
http://www.cas.ucf.edu/liberal_studies
ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

This certificate harnesses the naturally related fields of tourism to cultural studies, focusing on the specific cultural and business conditions in Central Florida as well as tourism. The certificate complements several fields, including hospitality management, African American Studies, history, anthropology, and political science. The cultural theme can be fulfilled by specialized areas in African American Heritage, Anthropology, Environmental Tourism, or Latin Cultural Heritage.

Credit Hour Requirements: 18 hrs

Required Courses (12 hrs)
- HFT 3450 Guest Service Management 3 hrs
- HFT 3701 Tourism Management 3 hrs
- HFT 4735 Tourism Geography 3 hrs
- ANT 3438 Anthropology of Tourism 3 hrs

Choose two classes from one of the following areas (6 hrs)
- African American Heritage area (choose two classes)
- Anthropology area (choose two classes)
- Environmental Tourism area (choose two classes)

Restricted Upper Division Electives (3 hrs)
- Select one of the following:
  - CJT 4100 Criminal Investigation 3 hrs
  - CCC 4661 Terrorism 3 hrs
  - CCC 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 credit 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 certificate.

DIGITAL MEDIA: Certificate

College of Arts and Sciences
CREAT Digital Media Program, VAB 205
http://www.creat.cas.ucf.edu/digitalmedia

Program Director: J. Michael Moshell, 407-823-6100

The certificate program focuses on providing an opportunity for students with substantial media-related skills to learn project management skills and participate in a Senior Project. Admission to the Certificate Program is by portfolio only.

Entrance Requirement
- Admission to the Digital Arts Seminar requires evaluation of a portfolio of work which demonstrates the student's creativity and technical accomplishment in some artistic or technical domain.
- All evaluations are conducted by the program Curriculum Committee.

Credit Hour Requirements:
- Required Course: 12 hrs
  - DIG 3625 Digital Media Production I 3 hrs
  - DIG 4941 Internship 3 hrs

Restricted Elective: (3 hrs)
- Any course listed under the Advanced Specializations of the Digital Media major (substitutions must be approved by the program Director prior to being taken)

Other Requirements
- A minimum grade of "C" (2.0) is required in each course used to satisfy the certificate.
- All courses used in the certificate must be taken at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit can be used in the certificate only with prior written permission.

FINANCE: Certificates

College of Business Administration, BA 409
http://www.bus.ucf.edu/finance

Restricted to Finance majors

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements: 12-15 hrs

Certificate in Banking 15 hrs
- FIN 4313 Management of Financial Institutions 3 hrs
- FIN 4324 Commercial Bank Management 3 hrs
- ACG 3131 Financial Accounting Concepts & Analysis 3 hrs
- ACG 3141 Intermediate Financial Accounting 3 hrs
- MAR 3391 Professional Selling OR 3 hrs
- **FIN 4942 Internship 3 hrs

An internship must be a paid internship with a financial services firm, and must be approved by the Department of Financial Internship coordinator and a banking faculty member. Both MAR 3391 and FIN 4942 are recommended if the student's schedule allows it.
- No course grade lower than a C will be accepted for the certificate requirements, and the average GPA for the five courses must be 3.0 or higher.

Certificate in Corporate Finance 12 hrs
- FIN 4414 Intermediate Corporate Finance 3 hrs
- FIN 3470 Financial Statement Analysis OR 3 hrs
- FIN 4424 Adv Topics in Financial Management 3 hrs
- **FIN 4941 Internship 3 hrs

Certificate in Investments 12 hrs
- FIN 3504 Investment Analysis 3 hrs
- FIN 4510 Portfolio Analysis and Management 3 hrs
- FIN 4533 Financial Derivatives 3 hrs
- **FIN 4941 Internship 3 hrs

*Restricted to finance majors. These certificates do not require additional hours beyond the finance major program. They are intended to allow students to develop specializations in 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.
Certificates

JAZZ STUDIES: Certificate
College of Arts and Sciences
Department of Music, CNH 205
http://www.cas.ucf.edu/music/
music@ucf.edu
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 pro-
gram.

Admission Requirement
Student must satisfactorily audition for the Department of Music.
Credit Hour Requirements 13 hrs
Required Courses (13 hrs)
MUT 3170 Jazz Theory I 2 hrs
MUT 3171 Jazz Theory II 2 hrs
MUT 3641 Jazz Improvisation I 2 hrs
MUT 3642 Jazz Improvisation II 2 hrs
MUL 2016 Evolution of Jazz 3 hrs
MUS 4932 Independent Study in Jazz 2 hrs

Other Requirements
■ Must complete all course and non-course requirements (recitals
and proficiency examinations) of the Music major in order to
qualify for the certificate within the degree.
■ A minimum GPA of 2.0 is required in all music courses attempt-
eted, whether or not used to satisfy the certificate.
■ At least 9 hours used in the certificate must be earned at UCF
within the Department.
■ No credit by exam (TSD, Military credit) may be used.
■ Internship, Co-op, or Independent Study credit cannot be used
toward the certificate.

JUDAIC STUDIES: Certificate
College of Arts and Sciences
Judaic Studies Program, CNH 201
http://www.cas.ucf.edu/judaic_studies
E-mail: judaicst@ucf.edu
Moshe Perli, 407-823-5039

The Interdisciplinary Program in Judaic Studies offers both a Minor
and a Certificate. The Program cooperates with the departments of
English, Modern Languages, History, Philosophy, Political Science,
and Sociology/Anthropology, and with the Liberal Studies and
Women’s Studies Programs. Students who desire to minor in Judaic
Studies are encouraged to meet with the program director. The cer-
ificate in Judaic Studies will be awarded to students completing 15
credits in Judaic Studies.

Credit Hour Requirements 18-26 hrs
Required Courses (or proficiency) (0-8 hrs)
HBR 1120 Elementary Modern Hebrew Lang and Cult I 3 hrs
HBR 1121 Elementary Modern Hebrew Lang and Cult II 3 hrs

Restricted Upper Division Electives (18 hrs)

Jewish History
JST 3144 Dead Sea Scrolls
JST 3401 The Jewish People I
JST 3402 The Jewish People II
JST 3550 Introduction of Modernism into Judaism
JST 3701 History of the Holocaust

Bible
JST 3120 Jewish Scriptures
JST 3125 The Book of Job
JST 3126 Romantic Love in the Bible

Literature
JST 3100 The Hebrew Creative Mind
JST 3751 Literature of the Holocaust

Culture
JST 3450 Modern Jewish Experience
JST 3820 Modern Hebrew Culture
JST 3810 The Jewish National Movement

Language
HBR 2200 Intermediate Modern Hebrew Language and Culture I
HBR 2201 Intermediate Modern Hebrew Language and Culture II
HBR 3410 Conversational Israeli Hebrew

Other courses, including special topics, with the approval of the Director

Other Requirements
■ A grade of “C” (2.0) or better is required in all courses used to
satisfy the minor.
■ At least 12 hours used in the minor must be earned at UCF
■ No credit by exam (TSD, Military credit) may be used.
■ Internship, Co-op, or Independent Study credit cannot be used
toward the minor.

LANGUAGE DEVELOPMENT AND DISORDERS: Certificate
College of Health and Public Affairs
Department of Communication 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 coun-
selors, 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, ado-
lescents and adults.
Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 13 hrs
Required Courses
LIN 3716 Language Development: Birth through 8 years 3 hrs
LIN 3717 Language Development: 9 through 18 years 3 hrs
LIN 4711 Language Analysis 3 hrs
LIN 4711L Language Analysis Lab 1 hr
SPA 4400 Language Disorders Across the Life Span 3 hrs

Other Requirements
■ A minimum grade of “C” (1.75) is required in each course.
■ Students must earn an overall GPA of 2.0 in courses used to
complete the certificate.
■ At least 10 hours used in the program must be earned at UCF
with the Department of Communication Disorders.
■ No credit by exam (TSD, Military credit) internship or independ-
ent study credit may be used toward the certificate.

MARKETING: Certificates
College of Business Administration
Department of Marketing, BA2 307S
http://www.exm.ucf.edu/
*
Restricted to Marketing majors 9 hrs
Certificates will be awarded only at the time of degree completion.

Certificate in Selling and Sales Management
MAR 3403 Sales Management
**MAR 4941 (internship in sales-related position)
One additional Marketing elective

Certificate in Retailing Management
MAR 4231 Retailing Management
**MAR 4941 (internship in retail-related position)
One additional Marketing elective

Certificate in e-Marketing
MAR 3880 e-Marketing
**MAR 4941 (internship in “e”-related position)
One additional Marketing elective

Certificate in Sport Marketing Management
MAR 4711 Sport Marketing
**MAR 4941 (internship in sport-related position)
One additional Marketing elective

Certificate in Healthcare Marketing
MAR 4712 Healthcare Marketing
**MAR 4941 (internship in healthcare-related position)
One additional Marketing elective

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, HPA2 238
http://www.cohipa.ucf.edu/pubadm/
Mary Ann Feldhein, 407-823-2604
The Certificate program will provide basic knowledge in nonprofit management, resource development, volunteer management, strategic planning, and program evaluation for those students interested in nonprofit sector management as a career.
Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 15 hrs
Required Courses (12 hrs)
PAD 4144 Nonprofit Organizations 3 hrs
PAD 4148 Volunteer Management 3 hrs
PAD 4147 Resource Dev. in the Nonprofit Sector 3 hrs
PAD 4325 Program Eval. Public & Nonprofit Org 3 hrs
PAD 4153 Strategic Planning & Implementation 3 hrs
Restrictive Elective Course (3 hrs)
See advisor for approved courses.

Other Requirements
- A minimum grade of “C” (2.0) is required in each course.
- Students must earn a 2.0 (“C”) for credit to be accepted.
- At least 12 hours used in the program must be earned at UCF within the Department of Public Administration.

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 in the nation. This area is in need of qualified, innovative managers and leaders to meet the demand of the twenty-first century. A student in this certificate program will gain experience in risk assessment, legal issues, and contemporary approaches to security management.
Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 15 hrs
Required Courses (12 hrs)
CJT 3804 Security Administration 3 hrs
CJT 3803 Security Management 3 hrs
CJT 4843 Risk Management 3 hrs
CCJ 4644 White Collar Crime 3 hrs
Restricted Upper Division Electives (3 hrs)
Select one of the following:
CCJ 4661 Conflict and Terrorism 3 hrs
CJE 3444 Crime Prevention 3 hrs
CJT 3842 Special Security Problems 3 hrs
PLA3937 Seminar in Contemporary Legal Problems 3 hrs
PLA3273 Law of Torts 3 hrs

Other Requirements
- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the certificate must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the certificate.

TRANSLATION AND INTERPRETATION: Certificate
College of Arts and Sciences
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 Comm 3 hrs
SPT 3809 Medical Span Trans/Interp 3 hrs
SPT 3831 Spanish Legal Trans/Interp 3 hrs

Restricted Upper Division Electives (6 hrs)
SPN 3933 Spanish Across the Curriculum 3 hrs
SPN 4941 Internship 3 hrs
Any upper division SPN or SPT course with advisor's approval

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the certificate.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the certificate must be earned at UCF within the Department.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study or Co-op credit cannot be used toward the certificate.
- Satisfactory completion of translation and interpretation exit exam.

WOMEN’S STUDIES: Certificate
http://www.cas.ucf.edu/womensstudies
College of Arts and Sciences
Women's Studies Program, CNH 201H
L. M. Logan, 407-823-6502, email: womensstudies@ucf.edu
The certificate program in Women's Studies is designed to provide students with a basic, working knowledge of gender roles and women's issues. The certificate program is open to both degree-seeking and non degree-seeking students, but should be particularly beneficial to students in professional degree programs who will serve women and/or girls as a client population, but whose elective hours are restricted.

Credit Hour Requirements 12 hrs
Required Course: (3 hrs)
WST 3015 Introduction to Women’s Studies
Restricted Electives (6 hrs)
See listing for minor. Certificate students are exempt from the distribution requirements and should select foundations courses that best complement their major area of study.
Internship Option: (0-3 hrs)
Internships required by a student's major degree program may count for credit toward the certificate, if placement is substantively related to women and/or women's issues.

Other Requirements
- A GPA of 2.0 or better is required in all courses used to satisfy the certificate.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 9 hours used in the certificate must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the certificate without approval of the program director.
- No more than one 2000 level course can be used toward the certificate.
STUDY ABROAD: Programs
http://www.international.ucf.edu
College of Arts and Sciences
Department of modern languages and literatures, foreignlanguage@ucf.edu
Colburn Hall 523
Consueto Stebbins, 407-823-2472

The Department of Foreign Language and Literatures offers six Study Abroad Programs during the summer session. These programs are approved by the State of Florida Board of Regents and are offered annually. Credit courses are available in languages at various levels. The programs are open to all students of the State University System of Florida and to others as well.

Koblenz, Germany
Koblenz is a charming city located in one of the picturesque regions of Europe, at the junction of the Rhine and Moselle rivers. Since France, Belgium and Luxemburg are very close, the city has always had an international flair. The program is housed at the University of Koblenz and offers courses in German language and civilization at the intermediate and advanced levels; all participants earn 8 credits. A number of spectacular excursions are included. This program takes place during Summer B term.

Amman, Jordan
Modern Amman preserves its ancient past. The Assyrians, the Babylonians, the Greeks, the Arabs, the Jews and the Byzantines have all left evidence of their art, religions and culture. Students earn six credits in intermediate or advanced written and spoken Arabic as well as the history, art, politics and customs of Jordan and the Moslem world.

Urbino, Italy
The city of Urbino, on the slopes of the Eastern Appennines, is one of the major centers for the study of Renaissance art and architecture. The modern university sponsors a number of conventions of learned societies and cultural events in the summer. Courses in Renaissance art and modern Italian letters are given in English; language courses are conducted in Italian. A number of weekend excursions throughout central Italy are included. This popular program takes place during Summer B term.

Madrid, Spain
World-class museums and a lively cultural agenda make Madrid an ideal location. This program is 6 weeks and designed for students who wish to continue their study of the Spanish language and civilization. Language courses will be offered from the intermediate level through the advanced. Classes meet Monday through Friday with several weekend trips to major destinations of cultural and artistic interest in the region. All students take one language, one conversation and one cultural course for 9 credit hours. This program takes place during Summer B.

Dominica, Guadeloupe and Martinique
The volcanic islands of Dominica, Guadeloupe and Martinique are surrounded by beautiful beaches in the Caribbean. This program is designed for students interested in the French language and culture, the Caribbean, the Creole cultures as well as the African Diaspora as areas of study. All students take a combination of one culture course and a language course or one study abroad seminar for a total of 6/7 credit hours. Weekend excursions to neighboring islands are part of this Study Abroad experience. This program takes place during Summer B term.

Amboise, La Rochelle, France
Amboise is a quiet community of 12,000 residents, known for the time that Italian artist Leonardo da Vinci spent in Le Clos Luce, a pink brick manor in Amboise’s center. LaRochelle, on the Atlantic coast, prides itself on 800 years of seafaring history. Courses are offered at the intermediate and advanced levels and students earn 6/8 credit hours. Weekend excursions are planned to various points of interest. This program takes place during Summer B term.

Urayasu, Japan
Urayasu, Chiba Prefecture, is located to the east of Tokyo. This former fishing village on the Bay of Tokyo is now a fast-growing suburb of Tokyo with a population of approximately 135,000. This program offers elementary, intermediate and advanced Japanese language and culture courses at Meikai University. All students will take a language course, and conversation course and a culture course. This program takes place during Summer B term.

ENGLISH STUDY ABROAD: Program
College of Arts and Sciences
Department of Art, Visual Arts Building, 117
Edinburgh, Scotland
Fine Arts
Students register for ART 4906 (4 credits) and enroll in two consecutive weekend courses at the Edinburgh School of Art. Edinburgh is a small friendly city with a wealth of historic and cultural attractions that inspire the creative spirit.

Mexico City, Mexico
Art History
In Mexico, the clash of the Spanish and the Aztec civilizations a half-millennium ago created a tapestry of religions, customs and rituals. Nowhere is this better reflected than in the art of Mexico City. Students enroll in ARH 3930 in Summer A. The course in Art History incorporates a ten day excursion to Mexico City.

HEALTH STUDY ABROAD
College of Health and Public Affairs
School of Social Work
Health and Public Affairs Building, 204
Pretoria, South Africa
South Africa is rapidly emerging as a leading force on the African continent and an active player on the global stage. Undoing the years of apartheid and worldwide sanctions is a significant undertaking that is accompanied by a myriad of social, political and economic concerns. Johannesburg and Pretoria are the ideal backdrop against which to study the developing South Africa. Graduate and undergraduate students earn 3 credits. Program consists of morning classroom lectures and discussions followed by afternoon field trips that compliment each morning’s class topic.
ACCELERATED UNDERGRADUATE-GRADUATE PROGRAMS

ECONOMICS ACCELERATED
UNDERGRADUATE-GRADUATE PROGRAM (B.A./M.A.A.E.)
College of Business Administration
Department of Economics
Email: rpennington@bus.ucf.edu, BA2 303B
407-823-2640

Admission Guidelines
- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites
- 3.25 GPA after completion of 80 credit hours
- 1260 SAT or 28 ACT desired. If students do not meet this criterion, they must submit a GRE or GMAT score
- Apply to the program in the fifth semester of classes. Admission is not automatic. Interested students will need to submit an essay and must be interviewed.

Degree Requirements

1. UCF General Education Program (36 hrs)
   - Communication Foundations
     - Required: SPC 1600
   - Cultural and Historical Foundations
     - 9 hrs
   - Mathematical Foundations
     - Select MAC 1105 College Algebra
     - Select CGS 2101 Computer Fundamentals for Business
     - 3 hrs
   - Social Foundations
     - Select ECO 2013 Macroeconomics
     - Select ECO 2023 Microeconomics
     - Select one: PSY 2121, SYG 2000, ANT 2000
     - 3 hrs
   - Science Foundation
     - 6 hrs

2. Common Program Prerequisites (3 hrs)
   - ECO 2013 Macroeconomics
   - ECO 2023 Microeconomics
   - Note: transfer credits may be accepted

3. Required Undergraduate Major Courses (15 hrs)
   - ECO 3101 Intermediate Price Theory
   - ECO 3203 Aggregate Econ. Conditions Analysis
   - 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
   - 3 hrs

5. Courses shared BA/MAAE (15 hrs)
   - ECO 4603 Mathematical Economics
   - ECO 4613 Microeconomics Analysis
   - ECO 6206 Aggregate Econom. Conditions & Analysis
   - ECO 6424 Econometrics
   - ECO 6XXX Economics Elective
   - 3 hrs

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 Foreign Language and Literature or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (variable)

10. University Minimum Exit Requirements - B.A.
    2.0 UCF GPA
    60 semester hours earned after CLEP awarded.
    48 semester hours of upper division credit completed.
    30 of the last 36 hours of course work must be completed in residence at UCF.
    A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credit permitted.
    Completed the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit if applicable.

Total Semester Hours Required (B.A.) 120 hours

11. Courses taken toward MAAE (9 hrs)
    Six to nine additional hours of 6000 level economics electives.
    A maximum of three hours of an approved non-economic elective may substitute for an economics elective. Select from disciplines such as accounting, finance, management, marketing, mathematics, statistics, public administration, health sciences, political science, computer science, and environmental engineering.

12. End of Program Option: (6 hrs)
    All candidates for the M.A. in Applied Economics degree must complete an end-of-program option. This requirement can be met by any of the following three equivalent options: 1) Thesis option, 2) Graduate internship option, or 3) All course work option.
    See the graduate catalog for a detailed description of the options.

Total Semester hours (BA/MAAE) 135 hrs

The baccalaureate degree will be awarded when program requirements for the BA are met and students have completed a minimum of 120 hours of credit. Students will then be reclassified as graduate students. The MAAE will be awarded on completion of the total program of study.

The following will be waived for this joint degree program:
- The limit of nine hours to be shared between undergraduate and graduate programs.
- Undergraduate students taking 6000 level courses must be within nine hours of graduation.
- Undergraduate students taking 6000 level courses must not register for more than a total of twelve hours in that semester.

Transfer Notes:
- Grades below “C” (2.0) are not accepted.
- Courses taken at community college do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be equivalency credit. The student must provide all supporting information.

Acceptable substitutes for Common Program Prerequisites if taken prior to transferring to UCF:
- ECO 2013 and ECO 2023 are prerequisites for subsequent economics courses and will need to be taken.

ECONOMICS ACCELERATED
UNDERGRADUATE-GRADUATE PROGRAM (B.S.B.A./M.A.A.E.)
College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu/economics
Email: rpennington@bus.ucf.edu, BA2 303B
407-823-2640

Admission Guidelines
- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites
- 3.25 GPA after completion of 80 credit hours
- 1260 SAT or 28 ACT desired. If students do not meet this criterion, they must submit a GRE or GMAT score
- Apply to the program in the fifth semester of classes. Admission
Degree Requirements

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
      Required: SPC 1600
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 1105 College Algebra 3 hrs
      Select CDS 2100C Computer Fundamentals for Business 3 hrs
   D. Social Foundations
      *Select ECO 2013 Principles of Macroeconomics I or
      ECO 2023 Principles of Microeconomics II
      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 2071 Principles of Managerial Accounting
   ECO 2013 Principles of Macroeconomics
   ECO 2021 Principles of Financial Accounting
   ECO 3401 Quantitative Business Tools I
   ECO 3402 Quantitative Business Tools II
   ECO 3411 Intermediate Price Theory
   ECO 3451 Research Methods in Economics
   MAN 4720 Strategic Management
   MAR 3023 Marketing
   Select one 3000 - 4000 level elective 3 hrs
   ECO 4451 Research Methods in Economics
   GEB 3031 Cornerstone 6 hrs
   ECO 4451 Research Methods in Economics 3 hrs

3. Common Body of Knowledge (30 hrs)
   First Semester in the College of Business Administration:
   GEB 3031 Cornerstone 6 hrs
   GEB 3356 Introduction to International Business 3 hrs
   First or subsequent semesters depending on major:
   BUL 3130 Legal & Ethical Environ. of Business 3 hrs
   ECO 3411 Quantitative Business Tools II 3 hrs
   FIN 3403 Business Finance 3 hrs
   MAN 3025 Management of Organizations 3 hrs
   ISM 3011 Essentials of Management Information Systems 3 hrs
   MAR 3023 Marketing 3 hrs
   Last Semester:
   MAN 4720 Strategic Management 3 hrs

4. Required Undergraduate Major Courses (9 hrs)
   ECO 3101 Intermediate Price Theory 3 hrs
   ECO 3203 Aggregate Econ Conditions Analysis 3 hrs
   ECO 4451 Research Methods in Economics 3 hrs

5. Restricted Electives (3 hrs)
   Select one 3000 - 4000 level elective 3 hrs

6. Courses Shared BSBA/MAAE (15 hrs)
   ECO 6403 Mathematical Economics 3 hrs
   ECO 6118 Micro Econ Analysis 3 hrs
   ECO 6206 Aggregate Econ Conditions Analysis 3 hrs
   ECO 6424 Econometrics 3 hrs
   ECO 6XXX Economics Elective 3 hrs

7. Electives (variable)

Total Semester Hours Required 120 hours

8. Courses taken toward MAAE (9 hrs)
   Six to nine additional hours of 6000 level economics electives.
   A maximum of three hours of an approved non-economics elective
   may be completed from disciplines such as accounting, finance,
   management, marketing, mathematics, statistics, public administration,
   health sciences, political science, computer science, and environmental engineering

9. End of Program Option 6 hours
   (1) Thesis option, (2) Graduate Internship option, (3) AA Course Work option (see the graduate catalog for a detailed description of the options).
   The baccalaureate degree will be awarded when program requirements
   for the BSBA are met and students have completed a minimum of 120 hours of credit. Students will then be reclassified as graduate students. The MAAE will be awarded on completion of the total program of study.

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

Graduate 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.

HISTORY ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A. and M.A.)
College of Arts and Sciences
CNH 551, 407-823-2224
http://pegasus.cc.ucf.edu/~history
Graduate program E-mail: hisgrad@ucf.edu
Undergraduate program E-mail: history@ucf. edu
Chair: Edmund F. Kallina
Graduate Program Coordinator: 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)
Accelerated Undergraduate-Graduate Programs

**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 6150: Historiography 3 hrs
   - HIS 6905: Capstone Course 3 hrs
   - HIS 6971: Thesis 6 hrs

2. **Courses in Area of Concentration (18 hrs)**
   Assumes that nine additional hours of graduate courses were taken during the senior year.
   (Eastern Hemisphere: African, Asian, European, or Middle Eastern; or Western Hemisphere: Caribbean, North American, or South American)

3. **Outside Area of Concentration in History (6 hrs)**

4. **Foreign Language Requirement**
   Students will also be expected to demonstrate reading competency in one foreign language. The foreign language competence must be completed one semester prior to the thesis defense.

5. **Examination Requirements**
   Each candidate for the M.A. in History must pass written examinations in two fields upon conclusion of regular course work and before beginning a thesis. These examinations must be taken and passed as part of the requirements for the Capstone course. Each student will also submit a thesis prospectus and preliminary bibliography, which the three members of the student’s thesis committee judge acceptable as the preliminary step to beginning the thesis.

**Minimum Hours Required for M.A. - 36 Semester Hours (nine hours of which also count toward the B.A. degree)**

**Related Programs:** Humanities

**Related Minors:**
- African-American Studies
- American Studies
- Asian Humanities
- Iberian Area Studies
- Middle Eastern Studies
- Russian Area Studies
- Women’s Studies

**Transfer Notes:**
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Acceptable Substitutes**
- AMH 2010 & 2020*: may use any two introductory courses with AMH, EUH, LAH, ASH, HIS or WOH prefix. However AMH 2010 and 2020 are prerequisites for all subsequent American History courses and will need to be taken for the major.

LIBERAL STUDIES ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A./B.S. AND M.A./M.S.)

College of Arts and Sciences
http://www.cas.ucf.edu/mls/AcceleratedProgram/

Liberal Studies Undergraduate Program, CNH 201
Liberal Studies Advising Team, 407-823-0144
E-mail: ls@mail.ucf.edu

The accelerated Program allows outstanding Liberal Studies students to earn a B.A. or B.S. degree and a M.A./M.S. degree in as few as five years. Students earn nine hours of graduate credit toward the M.A./M.S. while still an undergraduate, and then earn an additional twenty-four credits after earning the B.A. or B.S. degree.

Students majoring in any of the Liberal Studies tracks may apply for the program. This unique course of study requires close advising with program advisors, and approval by the M.A./M.S. in Liberal Studies program.

**Admission Requirements**
Acceptance to the university does not constitute admission to the program.
Accelerated Undergraduate-Graduate Programs

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.

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
- Maintain a minimum GPA of 3.2 in all upper level courses
- Computer Competency is met by IDS 4970H

5. Foreign Language Requirements (0-8 hrs)

Admission-BA: Met by graduation requirement.

Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation-BA: 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 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.

(Please see the Graduate Catalog for specific requirements)

Core courses (9 hrs)
- IDS 6306: Interdisciplinary Approaches to Research 3 hrs
- IDS 6669: Interdisciplinary Approaches to Research 3 hrs
- IDS 6351: Critical Thinking and Writing 3 hrs

Concentration (18 hrs)
More than 40 concentrations and certificate affiliation programs are part of the M.A./M.S. in Liberal Studies degree. See the graduate catalog for additional information.

Options (6 hrs)

Thesis Option
- Directed Readings 3 hrs
- Thesis 3 hrs
- Thesis defense

Non-thesis Option
- Two approved graduate courses 6 hrs
- Comprehensive exam

Total Hours Required - B.A./B.S. + M.A./M.S. 144 hours

Transfer Notes:
- Grades below "C" (2.0) are not accepted.
- Courses taken at community colleges do not substitute for Upper Division courses.
- 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.

NURSING (B.S.N.)
RN TO MSN OPTION
College of Health and Public Affairs
HPA 220, 407-823-2744
http://www.cohpa.ucf.edu/nursing/
Program Coordinator: Linda Henning

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, 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 courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities
- The BSN is awarded after completion of 60 hours including specified courses
- The MSN is awarded after program completion
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

BSN Curriculum Changes for the RN to MSN Option:
- An individualized plan of study is developed for each student admitted to the RN to MSN option.
- Students pursue the M.S. in the Nursing Leadership and Management Track. The student must provide all supporting information.

- Students pursuing the MSN in the Nurse Practitioner or Clinical Nurse Specialist tracks 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 XXXX, Graduate elective in area of concentration (e.g., nursing, health services administration for nursing elective)
- Students pursuing the MSN in the Nurse Practitioner or Clinical Nurse Specialist tracks may take the following courses:
  - 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 XXXX, Graduate elective in area of concentration (e.g., nursing, health services administration for nursing elective)

1. UCF General Education Program (36 hrs)
- Communication Foundations 9 hrs
- Cultural Historical Foundations 9 hrs
- Mathematical Foundations 6 hrs
- MAC 1105
- Select STA 2014C
- Social Foundations 6 hrs
- Select SYG 2000 or PSY 2012
- Select one: ECO 2013 or ECO 2023 or POS 2041
- Science Foundations: 6 hrs
  - Select BSC 2010C
  - Select CHM 1032

2. Common Program Prerequisites 21 hrs
- PSY 2012: General Psychology** 3 hrs
- SYG 2000: Sociology 3 hrs
- MCB 2004C: Health Microbiology 4 hrs
- CHM 1032L: General Chemistry and lab** 3 hrs
- ZOO 3730C: Human Anatomy* 4 hrs
- PCB 3703C: Human Physiology 4 hrs
- STA 2014C or 2023: Principles of Statistics** 3 hrs
- SOW 2104: Assessing Human Development or 3 hrs
- DEP 2004: Developmental Psychology 3 hrs
- HUN 3011: Human Nutrition 3 hrs

*May take Anatomy and Physiology sequence of six-eight total credits.
**Also meets General Education Requirements;
Accelerated Undergraduate-Graduate Programs

Applicants should see a UCF Nursing Advisor for possible course substitutions.

3. Upper Division Restricted Elective none

4. Departmental Exit Requirements
   Completion of all courses in major with a grade of “B” (3.0) or better
   - UCF GPA of 2.5 or above
   - School of Nursing GPA of 2.5 or above

5. Electives none

6. Foreign Language Requirements (0-8 hrs)
   Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam).
   Graduation: none

7. University Minimum Exit Requirements
   (For students exiting after earning BSN.)
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required BSN 120 hours

Related Programs: Health Services Administration, all health programs

Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

4945L) placements require an elective as a concurrent course.
### ARTICULATED A.S. TO B.S. PROGRAMS

The University offers eight specialized degree programs for students who have graduated from a Florida Community College with an A.S. degree in one of the following eight programs: 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 should write on the front of their application for admission to UCF, "A.S. - B.A./B.S." designating their desire to participate in the articulation agreement.

5. UCF will allow students to complete the UCF required General Education courses at their community college while they are enrolled and working on their degree at UCF. However, students cannot be transient in their last 30 hours at UCF.

6. Students with Associate in Applied Science (AAS) degrees are not eligible for participation in these programs unless they also have the appropriate A.S. degree.

Applicants who qualify for this program are not guaranteed admission to the limited access programs in Nursing and Radiologic Sciences or programs that require specific grades in particular courses for admission.

Students should consult with their community college advisor when pursuing one of these programs to make sure they have met all of the appropriate requirements for the degree, including the necessary General Education courses and common program prerequisites. Students are still required to complete all of the components of the Gordon Rule and CLAST prior to graduation from UCF. Students may be required to complete all common program prerequisites for these majors prior to enrollment in upper division course work. The total hours required for the General Education Program (GEP) will be 36 hours, excluding any necessary remediation.

Students admitted into these programs must meet the requirements as stated in the programs listed below. Students who change majors out of these programs must adopt the requirements of the most current catalog for the selected major, including the required UCF General Education Program.

Questions concerning the requirements of these majors should be referred to the appropriate academic department or the Director of Transfer Services, (407) 823-2231.

### CRIMINAL JUSTICE (B.S.)

**A.S. to B.S. TRACK**

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

**College of Health and Public Affairs**
HPA1 311 407-823-2603
http://www.cohpa.ucf.edu/crim.jus/

**Undergraduate Program Coordinator:** David Fabianic
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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 3024</td>
<td>Criminal Justice System</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CCJ3014</td>
<td>Crime in America</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CJL 3510</td>
<td>Prosecution and Adjudication</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CJC 3010</td>
<td>Corrections and Penology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CJE 4014</td>
<td>Police and Society</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CCJ 4701</td>
<td>Research Methods in Criminal Justice</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**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**
Articulated A.S. To B.S. Programs

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, 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 68 hours of course work, including at least 22 hours of transferable General Education courses.

Degree Requirements
- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (14 hrs)
   - Communication Foundations 3 hrs
   - Cultural and Historical Foundations 3 hrs
   - Mathematical Foundations 4 hrs
   - Select MAC 2311 or MAC 2253
   - Science Foundations 4 hrs
     - Select PHY 2049 and PHY 2049L or PHY 2054C

2. Common Program Prerequisites (CPP) (4 hrs)
   - MAC 2311 or MAC 2253
   - MAC 2312 or MAC 2254 or equivalent 4 hrs
   - PHY 2048 and PHY 2048L or PHY 2053C

3. Engineering Technology Core Requirements (18 hrs)
   - ETG 3541: Applied Mechanics 3 hrs
   - ETI 3651C: Computer Applications 3 hrs
   - ETI 3671: Technical Economic Analysis 3 hrs
   - ETI 4635: Technology Administration 3 hrs
   - ETI 3116: Engineering Quality Assurance 3 hrs
   - ENC 3241: Technical Report Writing 3 hrs
   - BSC 1005L or BSC 1050L 4 hrs

4. Upper Level Required Courses (21 hrs)
   - CET 3198C: Digital Systems 3 hrs
   - CET 3503: Microcomputer Technology I 3 hrs
   - CET 4134C: Microprocessor Electronics II 3 hrs
   - EET 3716: Network Analysis 3 hrs
   - EET 4158C: Linear Integrated Circuits 3 hrs
   - EET 4548: Power Systems 3 hrs
   - EET 4732C: Feedback Control Systems 3 hrs

5. Upper Level Technical Electives (6 hrs)
   Select six hours from the following:
   - CET 3144C: Applied Microprocessor Technology 3 hrs
   - CET 4138C: Digital Programmable Devices 3 hrs
   - CET 4333: Computer Organization & Design 3 hrs
   - EET 4329C: Communication Systems 3 hrs
   - EET 4359C: Digital Communications 4 hrs

6. Departmental Exit Requirement (3 hrs)
   ETG 4950C: Senior Design Project 3 hrs
   A grade of 2.0 or better is required in all prerequisites.

Total Semester Hours Required: 134 hours

Related Programs: Electrical Engineering Technology (Electrical Systems Concentration).

Related Minors: none

Transfer Notes:
- Students transferring from any Florida public institution with an A.A. or with the General Education Program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- ENT Departmental Residency Requirements consist of at least 33 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L can substitute for PHY 2053C.

Junior Year
Fall 13/14 hrs Spring 16 hrs
- MAC 2253 Applied Calc I or 3/4 PHY 2054C/2049 w/ lab 4
- MAC 2311 Calc w/Anal Geom I 3
- ETI 3671 Tech Economic Analysis 3
- SPC 1600 Oral Communications 3
- ETI 4633 Technical Administration 3
- PHY 2053C/2048 Physics I 4
- EET 3716 Network Analysis 3

Summer 10 hrs
- ETI 3116 Appl Eng Quality Assur 3
- SBC 1005L or SBC 1050L Biology 4
- Cultural/Historical Foundation 3

Senior Year
Fall 13 hrs Spring 12 hrs
- EET 4548 Power Systems 3
- ETI 4138C Linear Int Cir 3
- CET 4303 Microcomputer Tech I 3
- EET 4227 Photonics Sensor 3
- MAC 2312, 2254 or MAP 3401 4
- ENC 3241 Writing Tech Pros 3

Summer 9 hrs
- CET 4333 Comp Org & Design 3
- CET 4138C Digital Program Devices 3
- CET 4134C Microprocessor Elec II 3

Graduation: none
Articulated A.S. To B.S. Programs

### General Business (B.S.B.A.)

**A.S. to B.S. Track**

(Completion program for individuals who have a statewide articulated A.S. in business administration from a Florida public community college)

**College of Business Administration**

BA 240, 407-823-2184

http://www.bus.ucf.edu

Faculty Advisor: B. Moore, BA 325, 407-823-5256

**Admission Requirements**

Completion of a Statewide Articulated A.S. in Business Administration from a Florida public community college which is composed of 64 hours of course work, including at least 24 hours of transferable General Education courses.

**Degree Requirements**

1. **UCF General Education Program** (12 hrs)

   Students will complete 12 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and may come from the following areas:

   A. Communication Foundations - 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 2100C Computer Fundamentals for Business

3. **Required for All Business Majors** (30 hrs)

   First Semester in the College of Business Administration:
   - GEB 3031 Cornerstone 6 hrs
   - GEB 3356 Introduction to International Business 3 hrs

   First or subsequent semesters depending on major:
   - BUL 3130 Legal & Ethical Environments of Business 3 hrs
   - ECO 3411 Quantitative Business Tools II 3 hrs
   - FIN 3403 Business Finance 3 hrs
   - MAN 3025 Management of Organizations 3 hrs
   - ISM 3011 Essentials of Management Information Systems (3 hrs)
   - MAR 3023 Marketing 3 hrs

   Last Semester:
   - MAN 4720 Strategic Management 3 hrs

4. **Special College and/or Department Requirements**:

   - Students who change degree programs and select another major must adopt the most current catalog.
   - Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
   - Students wanting to major in General Business must apply for admission to the major.
   - Final exams will be given during Exam Week.
   - Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
   - Students must have at least a 2.0 GPA in the major and COB. Students majoring in General Business must earn a grade of "C" (2.0) or better in each course applied toward the major.

5. **Second Level Core (5 courses)**:

   Students must take one course from each of the following areas:
   - 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 3101 Intermediate Accounting I |
   | Economics  | ECP 4703 Managerial Economics      |

6. **4000 Level Requirement**:

   At least two of the second level courses must be at the 4000 level.

7. **A.S. Transfer Classes**

   At least two of the second level courses must be at the 4000 level.

8. **Foreign Language Requirements** (0-8 hrs)

   **Admission**: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

   **Graduation**: none

9. **University Minimum Exit Requirements**

   - A 2.0 UCF GPA
   - 60 semester hours earned after any CLEP award
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence at UCF
   - A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
   - Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

10. **Electives*** (variable)

    Must be outside the College of Business

**Total Semester Hours Required**: 132 hours

**Community College Transfer Notes**

- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a computer fundamentals for business class. At UCF Business, students who have completed the calculus and statistics class will be waived from Business Quantitative Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

***General electives as required to reach 132 semester hours.
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 2100C Computer Fundamentals of Business (GEP)
   - or STA 2023 Statistical Methods I
   - ECO 2013 Macroeconomics (GEP)
   - or ECO 2023 Microeconomics (GEP)
   - MAC 1105 College Algebra (GEP)
   - HFT 3540 Guest Services Management 3 hrs
   - HFT 3431 Hospitality Managerial Accounting 3 hrs
   - HFT 4295 Leadership and Mgmt in Hospitality Industry 3 hrs
   - HFT 4286 Hospitality Communications 3 hrs
   - HFT 4462 Hospitality Industry Finance 3 hrs
   - HFT 3942 Internship 1 hr
   - HFT 4911 Internship 1 hr
   - HFT 3933 Distinguished Lectures in Hosp. Mgmt. 1 hr

Select 3 of the following 4 courses to complete the core
   - HFT 3700 Tourism Management 3 hrs
   - HFT 3261 Restaurant Management 3 hrs
   - HFT 3273 Principles of Resort Time Sharing 3 hrs
   - HFT 4755 Theme Park and Attractions Mgmt 3 hrs

4. Special School Requirements:
   - Grades of "C-" (1.75) or below do not transfer into the Hospitality Management core or restricted electives.
   - It is the responsibility of the student to take whatever steps are necessary to determine if they have been officially dropped from a course. This does not remove the student’s responsibility for dropping courses they do not intend to complete.
   - Final exams will be given during Exam Week only.
   - The Rosen College of Hospitality Management requires all first time at UCF students to live in the Rosen College student apartments for their first year enrolled in the College.

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 (15 hrs)
       - Choose five advanced courses from the following list:
         - HFT 3313 Hospitality Physical Plant Management 3 hrs

B. Event Management Track – Choose 5 Courses (15 hrs)
   - HFT 4754 Convention and Conference Services 3 hrs
   - HFT 3741 Meeting Management 3 hrs
   - HFT 3757 Event Management 3 hrs
   - HFT 4795 Entertainment Arts and Events 3 hrs
   - HFT 4375 Advanced Trade Show Management 3 hrs

C. Vacation Ownership Resort Management Track (15 hrs)
   - HFT 4275 Development of Vacation Ownership Resorts 3 hrs
   - HFT 4274 Vacation Ownership Resort Management 3 hrs
   - HFT 4268 Case Studies in Vacation Ownership 3 hrs

   - "Final exams will be given during Exam Week only. 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.

   - The Rosen College of Hospitality Management requires all first time at UCF students to live in the Rosen College student apartments for their first year enrolled in the College.

   - 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 (15 hrs)
     - Choose five advanced courses from the following list:
       - HFT 3313 Hospitality Physical Plant Management 3 hrs

   - B. Event Management Track – Choose 5 Courses (15 hrs)
     - HFT 4754 Convention and Conference Services 3 hrs
     - HFT 3741 Meeting Management 3 hrs
     - HFT 3757 Event Management 3 hrs
     - HFT 4795 Entertainment Arts and Events 3 hrs
     - HFT 4375 Advanced Trade Show Management 3 hrs

   - C. Vacation Ownership Resort Management Track (15 hrs)
     - HFT 4275 Development of Vacation Ownership Resorts 3 hrs
     - HFT 4274 Vacation Ownership Resort Management 3 hrs
     - HFT 4268 Case Studies in Vacation Ownership 3 hrs

   - "Final exams will be given during Exam Week only. 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.

   - The Rosen College of Hospitality Management requires all first time at UCF students to live in the Rosen College student apartments for their first year enrolled in the College.

   - 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 (15 hrs)
     - Choose five advanced courses from the following list:
       - HFT 3313 Hospitality Physical Plant Management 3 hrs

   - B. Event Management Track – Choose 5 Courses (15 hrs)
     - HFT 4754 Convention and Conference Services 3 hrs
     - HFT 3741 Meeting Management 3 hrs
     - HFT 3757 Event Management 3 hrs
     - HFT 4795 Entertainment Arts and Events 3 hrs
     - HFT 4375 Advanced Trade Show Management 3 hrs

   - C. Vacation Ownership Resort Management Track (15 hrs)
     - HFT 4275 Development of Vacation Ownership Resorts 3 hrs
     - HFT 4274 Vacation Ownership Resort Management 3 hrs
     - HFT 4268 Case Studies in Vacation Ownership 3 hrs

   - "Final exams will be given during Exam Week only. 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.

   - The Rosen College of Hospitality Management requires all first time at UCF students to live in the Rosen College student apartments for their first year enrolled in the College.
D. Theme Park and Attraction Mgmt Track – Choose 5 Courses (15 hrs)

- HFT 4786 Managing the Guest Experience in Theme Parks and Attractions 3 hrs
- HFT 4759 Product Development in Theme Parks and Attractions 3 hrs
- HFT 4758 Contemporary Issues in the Theme Park and Attraction Industry 3 hrs
- HFT 4532 Managing the Employee Experience in Theme Parks and Attractions 3 hrs
- HFT 4787 Operational Issues in the Theme Park and Attraction Industry 3 hrs

E. Tourism Management Track (15 hrs)

- HFT 4735 Tourism Geography 3 hrs
- HFT 4722 Travel Agency Management 3 hrs
- HFT 4762 Current Practices in the Airline Industry 3 hrs
- HFT 4754 Exhibit & Trade Show Operations 3 hrs
- HFT 3757 Event Management 3 hrs

F. Lodging Management Track (15 hrs)

- HFT 3913 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 (15 hrs)

- HFT 4442 Vacation Ownership Resort Reservations/Data Base Systems 3 hrs
- HFT 4473 Hotel Development Analysis 3 hrs
- HFT 4453 Food, Beverage and Labor Cost Controls 3 hrs
- HFT 4432 Hospitality Industry Auditing 3 hrs
- HFT 4413 Technology Applications for Management 3 hrs

6. Foreign Language Requirements (0-8 hrs)

- State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 42 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable)

8. Electives (variable)

9. Cooperative Education 0 hrs

500 hours of supervised work experience

Total Semester Hours Required 124 hours

Community College Transfer Notes

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Rosen College of Hospitality Management.
- ACG X001 and X011 will substitute for HFT 2403 at UCF.
- Florida public community college students are encouraged to complete the General Education requirements prior to transferring to UCF.
- A minimum of 30 semester hours must be completed at UCF within the Hospitality major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.
- The College may allow substitutions for Hospitality classes taken at the community college. Students should check with the Rosen College of Hospitality Management College for approval of substitutions.

INFORMATION SYSTEMS TECHNOLOGY (B.S.)

A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Engineering and Computer Science Engineering Technology (ENT) Department

ENGR 207

Coordinator: Bahman Motlagh

407-823-4748 Fax: 407-823-4746

http://www.ent.ucf.edu

Admission Requirements

Students will be admitted to the program with an Associate in Science degree in Computer Engineering Technology Network Specialization. Students admitted under this articulated agreement will be required to satisfy the General Education requirements either at UCF or the courses may be taken at a community college. When applying for admission students need to make sure they indicate on the application form AS-BS IST.

Degree Requirements

- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (36 hrs)

A. Communication Foundations 9 hrs
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

2. Engineering Technology Core Courses (26 hrs)

ETI 3651C Computer Applications 3 hrs
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

3. Lower Level Required Courses Taken at Community College (33 hrs)

4. Required Technical Courses (21 hrs)

5. Technical Electives (12 hrs)

Choose four from the following:

6. Departmental Exit Requirements

none
Articulated A.S. To B.S. Programs

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

9. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hours

Related Programs: none

Related Minors: none

Transfer Notes:
- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.

Tentative Course Schedule for Transferring Students

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

<table>
<thead>
<tr>
<th>Junior Year</th>
<th></th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>14 hrs</td>
<td><strong>Spring</strong></td>
</tr>
<tr>
<td>EET 3085C Elect &amp; Electronics</td>
<td>4</td>
<td>EET 4483 Intro to Local Area Net</td>
</tr>
<tr>
<td>CET 3323C Digital Tech</td>
<td>4</td>
<td>CET 4483 Intro to Local Area Net</td>
</tr>
<tr>
<td>CET 3010 Intro to Info Tech</td>
<td>3</td>
<td>Tech Elective</td>
</tr>
<tr>
<td>CET 2364 Systems Apps in C</td>
<td>3</td>
<td>STA 2023</td>
</tr>
<tr>
<td><strong>Summer</strong></td>
<td>9 hrs</td>
<td></td>
</tr>
<tr>
<td>CET 4333 Comp Org &amp; Design</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENC 3241 Tech Rept Writing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ETI 4448 Applied Proj Mgmt</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Senior Year</strong></td>
<td></td>
<td><strong>Spring</strong></td>
</tr>
<tr>
<td>CET 4505 Appl Oper Sys I</td>
<td>3</td>
<td>Tech Elective</td>
</tr>
<tr>
<td>CET 4427 App Database I</td>
<td>3</td>
<td>Tech Elective</td>
</tr>
<tr>
<td>CET 3752 Intro to Telephony</td>
<td>3</td>
<td>Tech Elective</td>
</tr>
<tr>
<td>CET 4748 Wide Area Networks I</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

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)

College of Arts and Sciences

Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal.studies

Liberal Studies Advising Team, 407-823-0144

The program is administered through the Office of Liberal and Interdisciplinary Studies in the College of Arts and Sciences and is designed for academic flexibility. It recognizes that there are many combinations of courses 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 credits exclusive of credits done for the other degree(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

   Biological Sciences
   Commerce
   Computer Science
   Education
   Engineering
   Health
   Mathematical Sciences
   Physical Sciences
   Public Affairs*

The Public Affairs area requires taking certain courses to qualify. Please see an advisor.

4. Required Minor  (18 hrs minimum)
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 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.

NURSING (B.S.N.)
A.S. TO B.S.N. TRACK
(Completion program for individuals who have a statewide articulated A.S. Nursing degree from a Florida public community college)

College of Health and Public Affairs
HPA 220, 407-823-2744
http://www.cohpa.ucf.edu/nursing/

RN-BSN Coordinator: Linda Hennig
E-mail: ucfnurse@mail.ucf.edu

Admission Requirements
Limited Access
Acceptance to the university does not constitute admission to the upper division nursing program. Separate application to the limited access program must be made directly to the School of Nursing. All applicants must have:

   ■ 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.

2. Common Program Prerequisites  (21 hrs)

   ■ PSY 2012 General Psychology**  GEP
   ■ SYG 2000 Sociology**  3 hrs
   ■ MCB 2004C Health Microbiology  4 hrs
   ■ CHM 1032L General Chemistry and Lab**  GEP
   ■ ZOO 3733C Human Anatomy*  4 hrs
   ■ PCB 3703C Human Physiology*  4 hrs
   ■ STA 2014C Principles of Statistics**  GEP
   ■ or 2023 Statistical Methods I
   ■ SOW 3104 Assessing Human Development or 3 hrs
   ■ or DEP 2004 Developmental Psychology
   ■ HUN 3011 Human Nutrition  3 hrs

   * May take Anatomy and Physiology sequence of six-eight total credits;
   ** Also meets General Education Requirements;
   See a UCF Nursing advisor for possible course substitutions.

3. Core Requirements  (55 hrs)

   ■ NUR 3905 Transitional Concepts in Nursing I  3 hrs
   ■ NUR 3065L Health Assessment  3 hrs
   ■ NUR 3165 Nursing Research/Critical Inquiry  3 hrs
   ■ NUR 4084 Transitional Concepts in Nursing II  3 hrs
   ■ NUR 4636 Community as Continuum of Care  3 hrs
   ■ NUR 4636L Clin 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 4832 Directed Nursing Practice  4 hrs
   ■ Validation Credit  28 hrs
### Articulated A.S. To B.S. Programs

**4. Restricted Elective**  
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR XXXX</td>
<td>Any Nursing Elective</td>
</tr>
</tbody>
</table>

**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

**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
  - 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.cohipa.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 program from a Florida public community college that is composed of a minimum of 62 hours of course work, including at least 15 hours of transferable General Education courses. Students certified in radiography and in good standing with the American Registry of Radiologic Technologists (ARRT) who have not completed a Statewide Articulated A.S. in Radiography program from a Florida Public Community College may apply for admission but are not eligible to transfer to UCF under the provisions of the statewide articulation agreement.
- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C" (2.0).
- Students must be certified in radiography and be in good standing with the American Registry of Radiologic Technologists (ARRT).

**Degree Requirements**
- Students should consult with a departmental advisor
- Many of the courses designated in sections 1 and 2 below may be taken at a Florida community college, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program
- UCF residency requirement for Radiography: 33 hours

### 1. UCF General Education Program (21 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>B. Cultural Historical Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>0 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
</tr>
</tbody>
</table>

**Select ENC 1102, SPC 1600**
**Select PHY 2053C**
**Select PHY 2053C**
**Select PHY 2053C**
**Select PHY 2053C**

**Note**: Select ENC 1102, SPC 1600, MAC 1105, STA 2023 (Core Requirement), STA 2023 (Core Requirement) with the exception of PHY 2053C and 2054C.

**2. Common Program Prerequisites**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 100C</td>
<td>Introduction to Computer Science</td>
</tr>
<tr>
<td>PCB 3703C</td>
<td>Human Physiology*</td>
</tr>
<tr>
<td>PCB 3703C</td>
<td>College Physics I</td>
</tr>
<tr>
<td>PHY 2053C</td>
<td>College Physics II</td>
</tr>
<tr>
<td>ZOO 3733C</td>
<td>Human Anatomy*</td>
</tr>
<tr>
<td>MAC 1320C</td>
<td>College Algebra</td>
</tr>
</tbody>
</table>

**Note**: Select ENC 1102, SPC 1600, MAC 1320C, and PHY 2053C.

**3. Core Requirements**

**33 hrs**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>RTE 3000</td>
<td>Introduction to Radiologic Sciences</td>
</tr>
<tr>
<td>RTE 3100C</td>
<td>Introduction to Patient Care</td>
</tr>
<tr>
<td>RTE 3503C</td>
<td>Radiographic Procedures I</td>
</tr>
<tr>
<td>RTE 3116</td>
<td>Advanced Patient Care</td>
</tr>
<tr>
<td>RTE 3418C</td>
<td>Principles of Radiographic Exposure I</td>
</tr>
<tr>
<td>RTE 3504</td>
<td>Clinical Education I</td>
</tr>
<tr>
<td>RTE 3513C</td>
<td>Radiographic Procedures II</td>
</tr>
<tr>
<td>RTE 3457C</td>
<td>Principles of Radiographic Exposure II</td>
</tr>
<tr>
<td>RTE 3684C</td>
<td>Physics of Image Production</td>
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<tr>
<td>HSC 3540</td>
<td>Health Law</td>
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<tr>
<td>RTE 3308</td>
<td>Medical Physics</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>
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<td>Senior Level</td>
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<tr>
<td>RTE 4563</td>
<td>Special Radiographic Procedures</td>
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<tr>
<td>RTE 4782</td>
<td>Pathophysiologic</td>
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<td>RTE 4614L</td>
<td>Clinical Education II</td>
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<tr>
<td>RTE 4534L</td>
<td>Clinical Education III</td>
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<tr>
<td>RTE 4573</td>
<td>Advanced Imaging Modalities</td>
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<tr>
<td>RTE 4834</td>
<td>Clinical Education IV</td>
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<td>RTE 4385</td>
<td>Radiobiology</td>
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<td>RTE 4844</td>
<td>Clinical Education V</td>
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<tr>
<td>RTE 4473</td>
<td>Quality Improvement</td>
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<tr>
<td>RTE 4762</td>
<td>Anatomy for the Medical Image</td>
</tr>
<tr>
<td>RTE 4206</td>
<td>Leadership in Radiologic Sciences</td>
</tr>
<tr>
<td>RTE 4824</td>
<td>Advanced Clinical Practicum</td>
</tr>
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</table>

**4. Upper Division Restricted Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTE 4209</td>
<td>Radiologic Adm. Practice</td>
</tr>
<tr>
<td>RTE 4903</td>
<td>Directed Study Radiologic Education</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, continu-
Classification of Courses
The University course numbering system is as follows:

0-0999 Subcollegiate level and not counted in meeting degree requirements.

1000-2999 Freshman and sophomore level courses and are designed primarily for these students.

3000-4999 Junior and senior level courses (upper-division) and are designed primarily for these and other advanced students. When approved for inclusion in an individual program of graduate study by a supervisory committee approved by the Office of Graduate Studies, selected 4000-4999 courses may serve the needs of individual graduate students.

5000-5999 Beginning graduate and advanced undergraduate level courses - open to graduate students and those seniors who receive approval of the appropriate Dean(s).

6000-6999 Courses open only to graduate students. (Seniors, within nine hours of graduation that have a minimum 3.0 GPA, and do not register for more than twelve hours may request college permission to take a 6000-level class.)

7000-7999 Doctoral-level courses.

Florida’s Statewide Course Numbering System
Courses in this catalog are identified by prefixes and numbers that were assigned by Florida’s Statewide Course Numbering System. This common numbering system is used by all public postsecondary institutions in Florida and by 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 on the following page.)

For example, a survey course in social problems is offered by 34 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.”

Example of Course Identifier

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Level Code</th>
<th>Century Digit</th>
<th>Decade Digit</th>
<th>Unit Digit</th>
<th>Lab Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYG</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Sociology, General</td>
<td>Freshman level</td>
<td>level at this institution</td>
<td>Entry-level General Sociology</td>
<td>Survey Course</td>
<td>Social Problems</td>
</tr>
</tbody>
</table>
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. 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 may meet at a different time or place.

Transfer of any successfully completed course from one institution to another is guaranteed when the course is transferred 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 while 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 upon transfer. 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 on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution to offer transfer credit for courses successfully completed which have not been designated as equivalent.

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the prefix designation.

Authority for Acceptance of Equivalent Courses

State Board of Education Rule 6A-10.024(19), Florida Administrative Code, reads:

When a student transfers among postsecondary institutions that are fully accredited by a national or regional accrediting agency recognized by the United States Department of Education and that participate in the common course designation and numbering system, the receiving institution shall award credit for courses satisfactorily completed at the previous participating institutions when the courses are judged by the appropriate common course designation and numbering system faculty task forces to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The award of credit may be limited to courses that are entered in the course numbering system. Credits so awarded shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency

The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution:

A. Courses in the 900-999 series (e.g., HUM 2905)
B. Internships, practica, clinical experiences, and study abroad courses
C. Performance or studio courses in Art, Dance, Theater, and Music
D. Skills courses in Criminal Justice
E. Graduate courses
F. Courses not offered by the receiving institution

College preparatory and vocational preparatory courses may not be used to meet degree requirements and are not transferable.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to (Name of Institution Statewide Course Numbering System Contact) in the (Office where Institution Contact may be located) 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 850-245-0427 or SunCom 205-0427.

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. 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 may meet at a different time or place.

Transfer of any successfully completed course from one institution to another is guaranteed when the course is transferred 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 while 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 upon transfer. 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 on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution to offer transfer credit for courses successfully completed which have not been designated as equivalent.

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the prefix designation.

Authority for Acceptance of Equivalent Courses

State Board of Education Rule 6A-10.024(19), Florida Administrative Code, reads:

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<td></td>
<td>SYG</td>
<td>Sociology, General</td>
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<tr>
<td>NEM</td>
<td>Nematology</td>
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<td>SYO</td>
<td>Social Organization</td>
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<tr>
<td>NGR</td>
<td>Nursing, Graduate</td>
<td></td>
<td>SYP</td>
<td>Social Processes</td>
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<tr>
<td>NMT</td>
<td>Nuclear Medicine Technology</td>
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<td>TAR</td>
<td>Technical Architecture</td>
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<tr>
<td>NSC</td>
<td>Naval Science</td>
<td></td>
<td>TAX</td>
<td>Taxation</td>
<td></td>
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<tr>
<td>NUR</td>
<td>Nursing, Generic Undergraduate</td>
<td></td>
<td>TDP</td>
<td>Technical Drafting</td>
<td></td>
</tr>
<tr>
<td>OCA</td>
<td>Office Computer Applications</td>
<td></td>
<td>TPE</td>
<td>Theatre Performance and Performance Training</td>
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</tr>
<tr>
<td>OCB</td>
<td>Biological Oceanography</td>
<td></td>
<td>TRA</td>
<td>Teaching English as a Second Language</td>
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<tr>
<td>OCC</td>
<td>Chemical Oceanography</td>
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<td>TSL</td>
<td>Teaching English</td>
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<tr>
<td>OCE</td>
<td>General Oceanography</td>
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<td>VCS</td>
<td>Vegetable Crops</td>
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<tr>
<td>OCG</td>
<td>Geological Oceanography</td>
<td></td>
<td>VEM</td>
<td>Veterinary Medicine Professional</td>
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<tr>
<td>OGP</td>
<td>Physical Oceanography</td>
<td></td>
<td>VMC</td>
<td>Visual Communication</td>
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<tr>
<td>OPT</td>
<td>Office Technology (Occupational/Variable Paced)</td>
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<td>VPG</td>
<td>Veterinary Medicine Graduate</td>
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<tr>
<td>ORH</td>
<td>Ornamental Horticulture</td>
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<td>VPI</td>
<td>Vocational Preparatory Instruction</td>
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<tr>
<td>ORI</td>
<td>Oral Interpretation</td>
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<td>VUL</td>
<td>Ward Clerk</td>
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<tr>
<td>ORV</td>
<td>Ornamental Horticulture (Variable Paced)</td>
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<td>WDS</td>
<td>Weed Science</td>
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<tr>
<td>OSE</td>
<td>Optical Science and Engineering</td>
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<td>WFT</td>
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<tr>
<td>OTE</td>
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<td>WMI</td>
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<td>WNS</td>
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<td>OTH</td>
<td>Occupational Therapy</td>
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<td>WXW</td>
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<td>WXO</td>
<td>World History</td>
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</tr>
<tr>
<td>PAF</td>
<td>Public Affairs</td>
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<td>WYH</td>
<td>World History</td>
<td></td>
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<td>YCS</td>
<td>Yoruba Language</td>
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<td>PAX</td>
<td>Peace Studies</td>
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<td>YTC</td>
<td>Yoruba Literature in Translation</td>
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<tr>
<td>PAV</td>
<td>Parks and Zoos</td>
<td></td>
<td>YWC</td>
<td>Yoruba Literature</td>
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<tr>
<td>PCB</td>
<td>Process Biology, Cell/Molecular/Ecology/Genetics</td>
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<td>YWG</td>
<td>Yoruba Literature (Writings)</td>
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<tr>
<td>PCO</td>
<td>Psychology for Counseling</td>
<td></td>
<td>YWH</td>
<td>Yoruba Literature (Writings)</td>
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</tr>
<tr>
<td>PEL</td>
<td>Phys. Edu. Acts (Gen.)-Object</td>
<td></td>
<td>YWR</td>
<td>Yoruba Literature</td>
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</tr>
<tr>
<td>PEN</td>
<td>Physical Edu. Activities (Gen)-Water, Snow, Ice</td>
<td></td>
<td>ZOG</td>
<td>Zoology</td>
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</tr>
<tr>
<td>PET</td>
<td>Physical Education Therapy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Special Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directed Independent Studies</td>
<td>1906, 2905, 3905, 4906, 5907</td>
</tr>
<tr>
<td>Directed Independent Research</td>
<td>4912, 5917</td>
</tr>
<tr>
<td>Special Undergraduate Research</td>
<td>IDS 3013, 4914</td>
</tr>
<tr>
<td>Special Topics/Seminars</td>
<td>1931, 2930, 3930, 4932, 5937</td>
</tr>
<tr>
<td>*Internships, Practicums, Clinical Prac</td>
<td>3040, 4941</td>
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<tr>
<td>Cooperative Education¹</td>
<td>1949, 2949, 3949, 4949</td>
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<tr>
<td>Honors Undergraduate Thesis</td>
<td>3970, 4970</td>
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<tr>
<td>Honors Directed Reading¹</td>
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<tr>
<td>Honors Directed Reading¹</td>
<td>4904</td>
</tr>
<tr>
<td>Study Abroad</td>
<td>4955</td>
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</tbody>
</table>

*These courses may be assigned variable credit. Some may be repeated upon approval.

¹The Special Graduate Courses are primarily for graduate students, but may be taken by advanced seniors with the consent of their deans.

Dual Usage of Credit Hours

With the exception of 3 + 2 programs, courses used to meet the requirements of an undergraduate degree cannot typically also be used to meet the requirements of a graduate program. Students should contact their advisor or college for specific program requirements or additional information.

UCF Course Description Legend

PR: (Prerequisite) A course in which credit must be earned prior to enrollment in the listed course.

CR: (Corequisite) A course that must be taken concurrently with, or prior to, the listed course.

Cl: (Consent of the Instructor)

Hours Code

Each course listed is followed by a code that shows hours of credit and contact hours.

Example: ENV 4121C ECS-CEE 3(2,3)

ENV 4121C is offered by the College of Engineering and Computer Science (ECS), in the Civil and Environmental Engineering (CEE) Department, carries 3 hours of credit but requires 5 contact hours which consist of 2 hours in class and 3 hours laboratory or field work.

College/School/Department Indicator

Following the course number for each course listed is an indicator denoting the college, school, and department responsible for the course. The college designators are AS = Arts & Sciences, BA = Business Administration, ED = Education, ECS = Engineering and Computer Science, HM = Hospitality Management, and HPA = Health and Public Affairs. Department indicators are listed below (by college):

<table>
<thead>
<tr>
<th>College/School/Department</th>
<th>Department</th>
<th>Abbreviation</th>
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<tbody>
<tr>
<td>AS</td>
<td>Africcan American Studies</td>
<td>AAS</td>
</tr>
<tr>
<td>AS</td>
<td>Art</td>
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<tr>
<td>AS</td>
<td>Arts &amp; Sciences</td>
<td>CAS</td>
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<td>Biology</td>
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<tr>
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<td>Communication</td>
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<td>Digital Media</td>
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<tr>
<td>AS</td>
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</tr>
<tr>
<td>AS</td>
<td>Film</td>
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<td>Foreign Languages</td>
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<td>History</td>
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<tr>
<td>AS</td>
<td>Judaic Studies</td>
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<tr>
<td>AS</td>
<td>Liberal Studies</td>
<td>LS</td>
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<tr>
<td>AS</td>
<td>Mathematics</td>
<td>MATH</td>
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<td>Music</td>
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<td>OASIS</td>
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<td>Philosophy</td>
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<tr>
<td>AS</td>
<td>Psychology</td>
<td>PSYCH</td>
</tr>
<tr>
<td>AS</td>
<td>Radio/TV</td>
<td>ART</td>
</tr>
<tr>
<td>AS</td>
<td>Sociology &amp; Anthropology</td>
<td>SOC/AN</td>
</tr>
<tr>
<td>AS</td>
<td>Statistics</td>
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<td>BA</td>
<td>Management</td>
<td>MAN</td>
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<td>BA</td>
<td>Management Information System</td>
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<td>BA</td>
<td>Marketing</td>
<td>MAR</td>
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<tr>
<td>ECS</td>
<td>Air Force ROTC-Aerospace</td>
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<td>ECS</td>
<td>Civil &amp; Environmental</td>
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<td>ECS</td>
<td>Industrial &amp; Management</td>
<td>IEMS</td>
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<td>ECS</td>
<td>Mechanical/Materials/Aerospace</td>
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<td>ECS</td>
<td>Military Science-Army ROTC</td>
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<td>ED</td>
<td>Child, Family &amp; Comm Services</td>
<td>CFCS</td>
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<td>Education</td>
<td>EDU</td>
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<td>ED</td>
<td>Ed Research, Tech &amp; Lead</td>
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<td>ED</td>
<td>Educational Foundations</td>
<td>EDF</td>
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<td>ED</td>
<td>Educational Studies</td>
<td>ES</td>
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<tr>
<td>ED</td>
<td>Human Services/Wellness</td>
<td>HSW</td>
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<td>ED</td>
<td>Instructional Programs</td>
<td>IP</td>
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<tr>
<td>ED</td>
<td>Teaching &amp; Learning Principles</td>
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<td>HM</td>
<td>Hospitality Management</td>
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<td>HPA</td>
<td>Communicative Disorders</td>
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<tr>
<td>HPA</td>
<td>Criminal Justice &amp; Legal Studies</td>
<td>CJS</td>
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<tr>
<td>HPA</td>
<td>Health &amp; Public Affairs</td>
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<td>HPA</td>
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<td>HPA</td>
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<td>M&amp;M</td>
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<tr>
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<td>HPA</td>
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</tr>
<tr>
<td>HPA</td>
<td>Social Work</td>
<td>SOW</td>
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</tbody>
</table>

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.
Finding a Course in this List
The UCF courses in this section are listed alphabetically by prefix. Consult the “Common Course Numbering System” section of the Undergraduate Catalog for additional information.

Availability of Courses
The University does not offer all of the courses listed in this Undergraduate Catalog each academic year, academic semester, or term. Consult the online Class Schedule at https://connect.ucf.edu for those courses offered each semester/term.

AGC 2021  BA-ACCT  3(3,0)

AGC 2021H  BA-ACCT  3(3,0)

AGC 2071  BA-ACCT  3(3,0)
Principles of Managerial Accounting: PR: AGC 2021 and MAC 1105 or equivalent. The purpose of this course is to thoroughly familiarize the student with the various uses of accounting information for planning and control.

AGC 3101  BA-ACCT  3(3,1)
Intermediate Financial Accounting I: PR: Junior standing, Accounting major or minor, and MAC 1105, ECO 2013, and ECO 2023; and AGC 2071 or its equivalent with a grade of “C” or better. An introduction to manual and computer-based accounting information systems.

AGC 3111  BA-ACCT  3(3,0)
Intermediate Financial Accounting II: PR: Accounting major or minor, AGC 3101 with a grade of “C” or better. Theory and practice of internal auditing and the use of internal auditing in organizational control.

AGC 3301  BA-ACCT  3(3,0)
Management Accounting: PR: Accounting major or minor, Junior standing and C.I. To thoroughly familiarize the student with the various uses of accounting information for planning and control.

AGC 3361  BA-ACCT  3(3,0)
Cost Accounting I: PR: Junior standing, Accounting major or minor, and MAC 1105, ECO 2013, ECO 2023, and AGC 2071 with a grade of “C” or better. Cost accounting and analysis, and interpretation of external financial statements.

AGC 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 AGC 2071. Application of the application of financial and managerial accounting, and auditing for governmental, and nonprofit organizations.

AGC 4252  BA-FIN  3(3,0)

AGC 4401  BA-ACCT  3(3,1)
Accounting Information Systems: PR: Accounting major or minor, AGC 3101 and CGS 2100C, with a grade of “C” or better. An introduction to manual and computer-based accounting information systems.

AGC 4651  BA-ACCT  3(3,0)
Auditing: PR: Accounting major or minor, AGC 3111 and AGC 4401 with a grade of “C” or better. The standards, practices, and procedures followed in the audit function.

AGC 4671  BA-ACCT  3(3,0)
Internal Auditing: PR: Accounting major or minor, AGC 3131 or AGC 3361. Theory and practice of internal auditing and the use of internal auditing in organizational control.

AGC 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.

AGC 5205  BA-ACCT  3(3,0)
Advanced Financial Accounting Topics: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and AGC 3111 with a grade of “C” or better. Accounting for business combinations and the preparation of consolidated financial statements; Accounting issues related to foreign operations. Also includes a study of current reporting topics.

AGC 5206  BA-ACCT  3(3,0)

AGC 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 AGC 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.

AGC 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 AGC 3501 or consent of Graduate Program Advisor. Financial accounting and reporting for funds and activities of governments and nonprofit organizations; financial audit of government and nonprofit organizations.

AGC 5625  BA-ACCT  3(3,0)
Auditing and EDPI: PR: Acceptance for graduate study, AGC 3111, AGC 4401, and AGC 4651. An examination of auditing procedures followed when a company uses a computer to process financial records.

ADV 3000  AS-COMM  3(3,0)
Principles of Advertising: PR: SPC 1600C. Overview of the field of advertising: purposes, techniques, the role of agencies, advertisers and the media.

ADV 4101  AS-COMM  3(3,0)
Advertising Copywriting: PR: AD/PR majors only and ADV 3000. Advertising copywriting teaches the development of creative strategies for advertising and emphasizes writing for various ad media.

ADV 4103  AS-COMM  3(3,0)
Radio-Television Advertising: PR: R/TV or AD/PR Majors only and ADV 3000. Advertising copywriting teaches the development of creative strategies for advertising and emphasizes writing for various ad media.

AFA 2102  AS-AAS  3(3,0)
Introductory Perspectives on African American Studies: Multidisciplinary perspectives are used to explore key issues and basic methodologies in African American Studies, featuring presentations by representative faculty from various disciplines.

AFA 2300  AS-AAS  3(3,0)
African American Music: Comprehensive look at music written and made popular by African Americans.

AFA 3104  AS-AAS  3(3,0)

AFA 3955  AS-AAS  6(6,0)
Study Abroad in Eastern Caribbean: PR: LAS 4023 or Junior standing. Interdisciplinary study abroad program focuses on the arts and humanities of African diasporic cultures in the Eastern Caribbean.

AFA 4105  AS-AAS  3(3,0)

AFA 5930  AS-AAS  3(3,0)
Topics in African American Studies: PR: graduate status or senior standing or C.I. This interdisciplinary seminar...
uses primary texts to examine the impact of black culture, aesthetic and philosophical ideas on 20th century American society.

AFH 3100 AS-AAS 3(3,0) African History to 1870: PR: C.I. Sub-Saharan African institutions and peoples from the earliest time until 1870.

AFH 3200 AS-AAS 3(3,0) African History Since 1870: PR: C.I. Sub-Saharan African history from 1870 to the present.

AFH 5806 AS-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.

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.

AFR 1111 ECS-AFROTC 1(1,2) The Air Force Today II: A brief review of the Army, Navy, and Marine force. An introduction to special operations and counterinsurgency.

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.

AFR 2131 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.

AFR 3220C ECS-AFROTC 3(3,2) Air Force Leadership and Management I: An introductory study of Air Force management fundamentals, communications skills, and basic leadership styles. Hands on training.

AFR 3230 ECS-AFROTC 3(3,0) Air Force Evaluation and Management II: A concluding study of Air Force management fundamentals, including performance evaluation skills.


AMH 2010 AS-HIST 3(3,0) U.S. History: 1492-1877: Survey of U.S. History from 1492-1877.


AMH 2020 AS-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.


AMH 3586 AS-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.

AMH 3610 AS-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.

AMH 3613 AS-HIST 3(3,0) Sport in America Since 1945: PR: AMH 2010, AMH 2020 or C.I. American sport emphasizing the development of professional and collegiate sport since 1945.

AMH 3800 AS-HIST 3(3,0) Canadian History: Canada since Colonial times and the present, but with emphasis on the period since the British North America Act, 1867.

AMH 4110 AS-HIST 3(3,0) Colonial America, 1607-1763: PR: AMH 2010 and 2020 or C.I. The voyages of discovery, the origins of the thirteen colonies, and their political, economic, social, and religious life in the 17th and 18th centuries.

AMH 4112 AS-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.

AMH 4130 AS-HIST 3(3,0) The Age of the American Revolution, 1763-1789: PR: AMH 2010 and 2020 or C.I. The American Revolution - its origins, course, and impact upon American society - the Articles of Confederation, the Philadelphia Convention and its work.

AMH 4140 AS-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.

AMH 4160 AS-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.

AMH 4170 AS-HIST 3(3,0) Civil War and Reconstruction: PR: AMH 2010 and 2020 or C.I. Reconstruction, and impact of industrialism.

AMH 4201 AS-HIST 3(3,0) The Gilded Age and Progressivism: PR: AMH 2010 and 2020 or C.I. The Rise of Industrialized and Urbanized America, The emergence of the New South and the New West, the Populist Movement, overseas expansion, Progressivism.

AMH 4231 AS-HIST 3(3,0) United States History: 1914-1939: PR: AMH 2010 and 2020 or C.I. The progressive reforms of Woodrow Wilson, World War I, post-war prosperity, the Depression, the New Deal, and the coming of World War II.

AMH 4270 AS-HIST 3(3,0) United States History: 1939-1968: PR: AMH 2010 and 2020 or C.I. World War II, the Cold War and America in the fifties.
AMH 4273 AS-HIST 3(3,0) U.S. History Since 1960: PR: AMH 2010 and AMH 2020 or C.I. Civil rights and Women’s Liberation Movements, Vietnam War, Watergate, the decline of liberalism and the rise of conservatism, end of the Cold War.

AMH 4311 AS-HIST 3(3,0) American Culture I: PR: AMH 2010 and 2020 or C.I. The European Backgrounds: Puritanism; Enlightenment; the Great Awakening; Revolutionary Thought; Romanticism; the Southern Mind and the Yankee Response; Popular Culture and the rise of recreation.

AMH 4313 AS-HIST 3(3,0) American Culture II: PR: AMH 2010 and 2020 or C.I. The Darwinian Revolution; revolt of the intellectuals; the media explosion; mass entertainment in mass culture; the loss of community, the nuclear age, and presentism.

AMH 4376 AS-HIST 3(3,0) U.S. Space History: PR: AMH 2010 and AMH 2020, or C.I. Post World War II US rocketry and space travel with focus on the role of Cape Canaveral/Kennedy Space Center.

AMH 4510 AS-HIST 3(3,0) Rise of the United States to World Power, 1776-1914: PR: AMH 2010 and AMH 2020, or C.I. U.S. diplomacy from World War I through World War II.

AMH 4512 AS-HIST 3(3,0) US Diplomatic History: 1914-1945: PR: AMH 2010 and AMH 2020, or C.I. U.S. diplomacy from World War I through World War II.

AMH 5413 AS-HIST 3(3,0) United States as a Great Power: 1945-Present: PR: AMH 2020 or C.I. U.S. diplomacy from World War II to the present.

AMH 5116 AS-HIST 3(3,0) Colloquium in U.S. Colonial History: PR: graduate status or senior standing or C.I. Reading and discussion of the literature on selected topics in colonial American history.

AMH 5137 AS-HIST 3(3,0) Colloquium in U.S. Revolutionary Period: PR: graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in the Revolutionary Era, 1763-1789.

AMH 5149 AS-HIST 3(3,0) Colloquium in Early U.S. History, 1789-1815: PR: graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics of the early national period.

AMH 5169 AS-HIST 3(3,0) Colloquium in Age of Jackson: PR: graduate status or senior standing or C.I. Intensive reading and class discussion on selected topics of the Jacksonian age.

AMH 5176 AS-HIST 3(3,0) Colloquium in Civil War and Reconstruction: PR: graduate status or senior standing or C.I. Intensive reading and class discussion on selected topics of the Civil War and Reconstruction era.

AMH 5219 AS-HIST 3(3,0) Colloquium in Late 19th Century U.S.: PR: graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics of late 19th-century U.S.

AMH 5296 AS-HIST 3(3,0) Colloquium in 20th Century U.S.: PR: graduate status or senior standing or C.I. Reading and class discussion on selected topics of 20th-century U.S.

AMH 5391 AS-HIST 3(3,0) Colloquium in U.S. Cultural History: PR: graduate status or senior standing or C.I. Students will read and discuss a common or diverse body of the significant literature in the field.

AMH 5407 AS-HIST 3(3,0) Colloquium in American South: PR: graduate status or senior standing or C.I. Intensive reading and class discussion on selected topics of Southern history from colonial origins to the present.

AMH 5446 AS-HIST 3(3,0) Colloquium in U.S. Frontier: PR: graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics of frontier history.

AMH 5515 AS-HIST 3(3,0) Colloquium in U.S. Diplomatic History: PR: graduate status or senior standing or C.I. A survey of the historical literature of American foreign policy. May be repeated for credit when content is different.

AMH 5566 AS-HIST 3(3,0) Colloquium: Women in American History: PR: graduate status or senior standing or C.I. A consideration of the history of the women of the United States from its origins to the present.

AMH 5580 AS-HIST 3(3,0) Colloquium: The United States in the World: PR: graduate status or senior standing or C.I. Study of the role of the United States in the world from its origins to the present.

AMH 5937 AS-HIST 3(3,0) AP American History: PR: graduate status or senior standing or C.I. Participants will enhance their knowledge of weighing evidence and interpretations presented in historical scholarship with respect to the social, cultural, intellectual, economic, and political-diplomatic history of the U.S.

AML 3031 AS-ENG 3(3,0) American Literature I: PR: ENC 1102. Major American writers from beginning through Whitman.

AML 3041 AS-ENG 3(3,0) American Literature II: PR: ENC 1102. Major American writers from Twain to present.

AML 3283 AS-ENG 3(3,0) Contemporary American Women’s Fiction: PR: ENC 1102. Examines women and fiction from the end of World War II to the present.

AML 3613 AS-ENG 3(3,0) Narratives of Slavery: PR: ENC 1102. Literature, this course surveys texts produced in America from the colonial period to the present.

AML 3614 AS-ENG 3(3,0) Topics in African-American Literature: PR: ENC 1102. Literature by and about African-American culture in the United States. May be repeated for credit.

AML 3615 AS-ENG 3(3,0) Harlem, Haiti, and Havana: PR: ENC 1102. A comparative approach to African American and Caribbean writers, focusing on literary styles, historical contexts, and themes such as nationalism, popular music, and folk religion.

AML 3640 AS-ENG 3(3,0) Native American Literature: PR: ENC 1102 and ENC 1102. Native American genres, including traditional oral narratives, ritual and contemporary poetry, autobiography, and the novel.

AML 3682 AS-ENG 3(3,0) Ethnic Literature in America: PR: ENC 1102. Contributions of linguistic and ethnic groups of non-English origin to the literature of the United States.

AML 3682H AS-ENG 3(3,0) Honors Ethnic Literature in America: PR: Permission of Honors and ENC 1102H or equivalent credit. Contributions of linguistic and ethnic groups of non-English origin to the literature of the United States. Honors content.


AML 4153 AS-ENG 3(3,0) American Poetry at Mid-Century: PR: ENC 1102 and ENG 3014. Study of major figures from the “Middle Generation”: Berryman, Bishop, Jarrell, Lowell, Plath, Rich, Roethke, and others.


AML 4261 AS-ENG 3(3,0) Literature of the South: PR: ENC 1102 and ENG 3014 or C.I. Development of Southern literature from its beginnings in the “Old South” through the post-Civil War and the Southern-Renaissance to the present. Emphasizes reading from Poe, Ransom, Tate, Faulkner, Porter, Warren, O’Connor, Percy, and Styron.

AML 4265 AS-ENG 3(3,0) Florida Writers: PR: ENC 1102 and ENG 3014. This course will examine writers who have lived in and written about Florida, such as Hemingway, Rawlings, Hurston, and Stevens.

AML 4300 AS-ENG 3(3,0) Major American Authors: PR: ENG 3014. A comprehensive study of selected major American literary figures. May be repeated for credit when content changes.

AML 4321 AS-ENG 3(3,0) Modern American Literature: PR: ENC 1102 and ENG 3014. Major writers of modern American literature.

AML 4630 AS-ENG 3(3,0) Latino/Latina Literature: PR: ENC 3014. U.S. literature by writers from Latin and Latina backgrounds.

AML 5076 AS-ENG 3(3,0) American Literature: Colonial to Contemporary: PR: Graduate status or senior standing or C.I. Intended for graduate students and future teachers of American Literature, this course surveys texts produced in America from the colonial period to the present.

AML 5156 AS-ENG 3(3,0) Modern American Poetry: 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.

ANG 5110 AS-SOC/AN 3(3,0) Archaeological Theory and Method: PR: Graduate status or senior standing or C.I. A consideration of the history and current state of the art of the theory and methods used by archaeologists to interpret past behavior.

ANG 5165 AS-SOC/AN 3(3,0) Field Archaeology in Maya Studies: PR: ANG 6198 or C.I. Practical application of method and theory during primary in-field research in the Maya area.

ANG 5166 AS-SOC/AN 3(3,0) Projects in Maya Studies: PR: ANG 6198 or C.I. In-depth study of current methodological, theoretical, and/or topical problems in Maya Studies.
ANT 3164 AS-SOC/AN 3(3,0) Ancient Incas: PR: ANT 2000 or SYG 2000 or ANT 2100 or C.I. The ancient Inca civilization, including examination of pre-Inca cultures and modern Andeans. Uses archaeological, ethnohistorical, historical, and contemporary anthropological sources.

ANT 3168 AS-SOC/AN 3(3,0) Maya Archaeology: An examination of the Prehistoric Maya culture focusing on both the archaeology and current issues in the field.

ANT 3184 AS-SOC/AN 3(3,0) Mortuary Archaeology: PR: ANT 2000 or ANT 2100 or ANT 2511. Archaeological interpretations of death, basic data collection, skeletal analysis, and comparative study of mortuary ritual - both ancient and modern.

ANT 3212 AS-SOC/AN 3(3,0) Peoples of the World: A comparative study of religion, family, politics, philosophy, and other elements of socio-cultural organization of pre-literate societies.

ANT 3241 AS-SOC/AN 3(3,0) Magic, Ritual, and Belief: Patterns in religious behavior in various societies, with primary emphasis on myth, rite, taboo, and festival social phenomena.

ANT 3245 AS-SOC/AN 3(3,0) Native American Religions: PR: ANT 2000 or ANT 2410 or C.I. The religious beliefs of Native New World peoples.

ANT 3262 AS-SOC/AN 3(3,0) Rural Society: An introduction to rural society in the U.S. and abroad. Problems of third world development in the rural sector.

ANT 3273 AS-SOC/AN 3(3,0) Law and Culture: An introduction to law as an organizing force in society, including a study of primitive forms of law and social control.

ANT 3302 AS-SOC/AN 3(3,0) Sex, Gender and Culture: The traditional and changing roles of women and men viewed in a cross-cultural perspective.

ANT 3311 AS-SOC/AN 3(3,0) Indians of the Southeastern United States: A study of the social and cultural history of the Indians of the Southeast.

ANT 3312 AS-SOC/AN 3(3,0) Ethnology of North American Indians: A survey of the aboriginal cultures of North America, with emphasis on the pre-contact cultural condition.


ANT 3314 AS-SOC/AN 3(3,0) Indians of the Northeast Woodlands: PR: ANT 2003 or ANT 2410 or other lower-level social science course. The prehistory, history and culture of Native Americans of the North American Northeast.

ANT 3316 AS-SOC/AN 3(3,0) Black/Seminole Relations: PR: 2000 level GEP Social Science course or C.I. Relationships forged between peoples of African origin and descent and the Seminole Indians.

ANT 3318 AS-SOC/AN 3(3,0) Indians of the Northwest Coast: PR: ANT 2003 or ANT 2410 or other lower-level social science course. The prehistory, history and culture of Native Americans of the Northwest Coast of North America.
ing and analyzing art experiences, activities and class-
room environments for the elementary school classroom. 
Materials & Supply fee: $3.00

ARE 4352 ED-TLP 3(2,1) 
Teaching Art in the Secondary School: PR: ARE 4143, EDF 4214, and EDG 4323. Transition from university art studio practices to High School Teaching of art. Organizing, designing and analyzing art experiences and activities appropriate for junior high and high school children. Examination of teaching methodology relative to the high school and junior high school settings. Materials & 
Supply fee: $5.00

ARE 4356 ED-TLP 3(3,1) 
Teaching Art Appreciation & Criticism in the Classroom: PR: ARH 2050 and ARH 2051. An examination of art appreciation programs and concepts toward planning curriculum for the study of art history, popular art, art criticism, and aesthetics for specific educational set-
tings.

ARE 4453 ED-TLP 3(3,0) 
Studio Experiences in Art Education: PR: Completion of all Art Education Program Prerequisites or C.I. Materials available for instruction in public schools will be explored in depth in relation to their appropriateness and productive qualities. May be repeated for credit.

ARE 4945 AS-ART 12(0,12) 
Community Arts Internship: PR: C.I. An on-site in-depth experience for community arts majors with a concentration in administration, education, or therapeutic experience.

ARE 5251 ED-TLP 3(2,1) 
Art for Exceptionalities: Concepts, principles, and meth-
ods of integrating art practices into the education of the physically, emotionally, and mentally handicapped.

ARE 5255 ED-TLP 3(2,1) 
Arts in Recreation: Art activities and experiences appro-
priate for use in playground, leisure services, occupational orientation and other recreational areas.

ARE 5359 ED-TLP 4(4,0) 
Teaching Art K-12: PR: Admission to M.A. in Art Education, graduate standing or C.I. Transition from university art practices to public school teaching of art. Organize, design, and analyze art learning for students K-12.

ARE 5454 ED-TLP 3(3,0) 
Studio Experiences in Art Education: PR: Graduate admission or C.I. Materials available for instruction in public schools will be explored in depth in relation to their appropriateness and productive qualities. May be repeated for credit. Materials & Supply fee: $3.00.

ARE 5648 ED-TLP 3(3,0) 
Contemporary Visual Arts Education: PR: ARE 4443 or C.I. Continued study of current programs and innovations in public school Visual Arts Programs.

ARH 2050 AS-ART 3(3,0) 
History of Western Art I: Painting, sculpture and archi-
tecture from the Prehistoric Era through the Renaissance. 

ARH 2050H AS-ART 3(3,0) 
Honors History of Western Art I: PR: Permission of Honors. Painting, sculpture and architecture from the Prehistoric Era through the Renaissance, with honors content.

ARH 2051 AS-ART 3(3,0) 
History of Western Art II: Painting, sculpture and archi-
tecture from the Baroque through the 20th century. 

ARH 2051H AS-ART 3(3,0) 
Honors History of Western Art II: PR: Permission of 
Honors. Painting, sculpture and architecture from the Baroque through the 20th century, with honors-level con-
tent.

ARH 2500 AS-ART 3(3,0) 
History of Non-Western Art: Major visual arts in various non-Western cultures.

ARH 3454 AS-ART 3(3,0) 
Happenings and Conceptual Art: PR: Junior Standing or C.I. Aesthetic and social significance of "Total Art" in its attempt to break down customary distinctions between life and art.

ARH 3471 AS-ART 3(3,0) 
Art in the Last 25 Years: PR: ARH 2050 and ARH 2051 or C.I. A seminar for college art students to examine current trends in the visual arts.

ARH 3520 AS-ART 3(3,0) 
African Art: PR: Junior status, ARH 2050, or C.I. Art objects produced in Africa and African sites; with some consideration of arts of the African Diaspora.

ARH 3570 AS-ART 3(3,0) 
Ceramics of the Muslim World: PR: ARH 2050 or C.I. Islamic Art and the stylistic and technical characteristics of the period, in contrast to pre-Islamic or other civilizations such as the ancient Greeks, Egyptians, Babylonians, and Chinese.

ARH 3610 AS-ART 3(3,0) 
American Art: PR: ARH 2050 and ARH 2051 or C.I. Surveys American Art to 1900. Leading artists are identi-
fied and representative examples of their work are dis-
cussed within the context of major themes, patterns, sources.

ARH 3632H AS-ART 3(3,0) 
Honors: African American Arts Seminar: PR: Permission of Honors. An exploration of traditional, aca-
demic, and contemporary urban African American visual arts.

ARH 3670 AS-ART 3(3,0) 
20th Century Latin American Art: PR: ARH 2050 and ARH 2051 or C.I. Art of the modern era (1820 to 1980) in the Caribbean and South America; issues and characteris-
ts of art as they reflect the cultural evolution of Latin America.

ARH 3673 AS-ART 3(3,0) 
Modern Art of Mexico: PR: ARH 2050 or ARH 2051 or C.I. Modern art of Mexico from the Mexican Academy post-
independence to the 1980s.

ARH 3683 AS-ART 3(3,0) 
Southern Folk Arts: PR: Junior Standing or C.I. This course will explore contemporary issues related to folk art in
duding definition, collecting, marketing, art criticism, tra-
dition, innovation, and its relationship to the so-called fine arts and popular arts.

ARH 3710 AS-ART 3(3,0) 
History of Photography I: PR: Junior Standing or C.I. History of photography from earliest inception to 1900. The content of this course is designed for art majors.

ARH 3711 AS-ART 3(3,0) 
History of Photography II: PR: Junior Standing or C.I. History of photography from the early 20th century to the present. The content of this course is designed for art majors.

ARH 3720 AS-ART 3(3,0) 
History of Prints: PR: ARH 2050 and ARH 2051 or C.I. History of printmaking in the Western world, surveying works by the "great printmakers."

ARH 3820 AS-ART 3(3,0) 
Visual Arts Administration Vitas: PR: Junior Standing or C.I. Grant applications; Personnel; copyright laws; muse-
um practices, etc.

ARH 4170 AS-ART 3(3,0) 
Greek & Roman Art: PR: ARH 2050 or HUM 3431 and ENC 1102 or C.I. A study of the art and architecture of the ancient civilizations of the Mediterranean, comprising Greece, Eturia, and Rome.

ARH 4200 AS-ART 3(3,0) 
Medieval Art: PR: ARH 2050 and ARH 2051. Medieval Art from the 6th through 14th centuries, including painting, architecture, sculpture and illuminated manuscripts.

ARH 4310 AS-ART 3(3,0) 
Italian Renaissance Art: PR: ARH 2050 and ARH 2051 or C.I. A survey of Italian Art and Architecture from 1300 to 1500.

ARH 4350 AS-ART 3(3,0) 
Baroque Art: PR: ARH 2050 and ARH 2051 or C.I. A study of European Art in the 17th and 18th centuries.

ARH 4430 AS-ART 3(3,0) 
19th Century Art: PR: ARH 2050 and ARH 2051. A survey of the trends and developments in art during the 19th cen-
tury, including the art of America and of Western Europe.

ARH 4450 AS-ART 3(3,0) 
20th Century Art: PR: ARH 2050 and ARH 2051 or C.I. A survey of the art from Fauvism, Futurism, Cubism to the art of the present.

ARH 4545 AS-ART 3(3,0) 
Art of India: PR: Junior Standing or C.I. Art and architect-
ture of India from prehistoric times through the Gupta, Rajput, and Muslim periods.

ARH 4655 AS-ART 3(3,0) 
Meso American Art: PR: Junior Standing or C.I. A survey of the art of Mexico and Central America, from the Pre-
Colombia, through the Spanish Colonial, to the 20th cen-
tury.

ARH 4800 AS-ART 3(3,0) 
Theory and Criticism of the Visual Arts: PR: ARH 2050 and ARH 2051 or C.I. A study of the trends and developments in art during the 19th cen-
tury, including the art of America and of Western Europe.

ARH 4892 AS-ART 3(3,0) 
Women in Art: PR: ARH 2050 and ARH 2051 or C.I. A sur-
vey of women artists from ancient times to the present as well as a study of the role Aesthetics and Ideology have played in determining representations of women in art.

ARH 5587 AS-ART 3(3,0) 
Advanced Seminar in Art History: PR: ARH 2050 and ARH 2051 or C.I. Research methods on various topics in-
cluding: major artist, monument, cultural period or theme

ART 2130C ED-TLP 3(2,3) 
Fibers & Fabrics: Design and production training in sur-
face design, floor loom weaving and fiber sculpture. Materials & Supply fee: $5.00

ART 2160C ED-TLP 3(2,3) 
Metals, Woods, Leathers and Stones: Processes and tech-
niques of production.

ART 2201C AS-ART 3(2,4) 
Design Fundamentals-Two Dimensional: PR: ART 2200. 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. Materials & Supply fee: $15.00

ART 2201H AS-ART 3(2,4) Honors Design Fundamentals-Two Dimensional: PR: ART 2200. Priority given to students whose major requires this course. Permission of Honors. Materials, processes, form. Emphasis on two-dimensional design problems, including problems in black and white and basic color theory with Honors content.

ART 2203C AS-ART 3(2,4) Design Fundamentals-Three Dimensional: PR: ART 2200 or C.I. Priority given to students whose major requires this course. Basic three-dimensional design using the various sculptural media. Materials & Supply fee: $15.00

ART 2300C AS-ART 3(2,4) Drawing Fundamentals I: PR: ART 2200 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. Materials & Supply fee: $10.00

ART 2301C AS-ART 3(2,4) Drawing Fundamentals II: PR: ART 2300C and ART 2301C or C.I. Priority given to students whose major requires this course. Continuation of ART 2300C. Materials & Supply fee: $10.00

ART 2394 AS-ART 3(3,0) Drawing: Computer as a Medium: Object drawing, using the computer and drawing styles as a medium.

ART 2400C AS-ART 3(2,4) Beginning Printmaking: Basic elements and techniques of printmaking covered. Relief, intaglio, and lithography. Assignments include practical application of printmaking as drawing tool.

ART 2500C AS-ART 3(2,4) Beginning Painting: PR: ART 2300C, ART 2201C, or C.I. Methods and materials of the painter. Introduction to the problems in painting. Materials & Supply fee: $15.00

ART 2701C AS-ART 3(2,4) Sculpture: PR: Three semester hours in three-dimensional work, ART 2201C, ART 2203C, ART 2300C, ART 2301C. Materials & Supply fee: $20.00

ART 2754C AS-ART 3(2,4) Beginning Ceramics: PR: ART 2201C or C.I. Basic concepts of ceramic design, experience in processes of forming, decorating, glazing, and firing pottery. Materials & Supply fee: $35.00

ART 2820 AS-ART 3(3,0) Art as Interface: An overview of art department specializations, and selected historical and theoretical information influencing the art curriculum. Examination of aesthetic characteristics shared by the various disciplines and how knowledge of these data is used by the profession to share information with the community.

ART 2820H AS-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.

ART 3161 AS-ART 3(3,0) Mixed Media: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. Concepts and techniques involving the creation of art objects by integrating painting, sculpture, drawing, design, and art history.


ART 3433C AS-ART 3(2,4) Screenprinting: PR: ART 2201C, ART 2203C, ART 2300C. Techniques of waterbase screenprinting, including digital/print processes and practical applications of screenprinting as a means for image making.

ART 3504C AS-ART 3(2,4) Intermediate Painting: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. Reinforces and extends methods and materials content of ART 2500C, and deals with issues of figurative painting, Materials & Supply fee: $15.00

ART 3616C AS-ART 3(3,0) Animation Production Methods: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, C.I. The development of a computer animation piece. All aspects of production will be covered. May be repeated for credit. Materials & Supply fee: $15.00

ART 3618C AS-ART 3(3,0) Post-Production Design: PR: Accepted into Animation program. Special effects and composing for computer animation and film. Focus on the use of After Effects, Premier and Photoshop software.

ART 3643C AS-ART 3(3,0) Digital Effects & Compositing: PR: Animation major. Special effects and composing for computer animation and film. Focus on the use of After Effects, Premier and Photoshop or comparable software.


ART 3764C AS-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 Materials & Supply fee: $35.00

ART 3833C AS-ART 3(4,2) Processes and Ideas in Art: PR: Junior Standing. This course emphasizes the development of individual creativity and the generation of new insights concerning artistic expression. These "formative activities" must be manifested by students in the form of small sculptures and/or other forms of creativity.

ART 3950 AS-ART 0(0,0) Portfolio Review: PR: C.I. Review of relevant artistic works in a student's portfolio. Graded S/U.

ART 4132C AS-ART 3(2,4) Advanced Fiber And Fabrics: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Textile design and production, including non-loom weaving processes. May be repeated for credit. Materials & Supply fee: $5.00

ART 4173 AS-ART 3(3,0) The Artist Book: PR: ART 2201C and ART 2203. Course will explore the definition of book from traditional handmade to contemporary artist book. Students will redefine their elements, structure and content and be exposed to binding and printing methods in book production. Materials & Supply fee: $25.00

ART 4226C AS-ART 3(3,3) Post Production for Animators: PR: FIL 3287C. Concepts and tools for finishing computer and traditional animations on film and video. Emphasis on compositing tools to combine elements in a finished animation.

ART 4320C AS-ART 3(2,4) Advanced Drawing: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3322C. May be repeated for credit.

ART 4402C AS-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. Materials & Supply fee: $30.00

ART 4505C AS-ART 3(2,4) Advanced Painting: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3504C, and a satisfactory portfolio review or C.I. Advanced problems in painting. May be repeated for credit. Materials & Supply fee: $15.00

ART 4634C AS-ART 3(3,1) Web Art: PR: ART 2280 or C.I. The Web as a medium for art.

ART 4710C AS-ART 3(2,4) Advanced Sculpture: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2701C, and a satisfactory portfolio review or C.I. May be repeated for credit. Materials & Supply fee: $30.00

ART 4765C AS-ART 3(2,4) Ceramic Handbuilding II: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2754C, and a satisfactory portfolio review or C.I. Technical skills in manipulating form, function, volume, color and surface texture. Materials & Supply fee: $35.00


ART 4783C AS-ART 3(2,4) Advanced Ceramics: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3760C, and a satisfactory portfolio review or C.I. Advanced problems in the ceramic process. May be repeated for credit. Materials & Supply fee: $34.99

ART 4786C AS-ART 3(2,4) Ceramic Raw Material: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3766C, and a satisfactory portfolio review or C.I. An in-depth understanding of the singular and diverse properties of clay and glaze materials. Materials & Supply fee: $35.00

ART 4935 AS-ART 3(3,1) B.F.A. Exhibit/Seminar: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, must complete Studio course for B.F.A. and a satisfactory portfolio review or C.I. This course is designed to prepare B.F.A. students for B.F.A. Exhibition Materials & Supply fee: $15.00

ART 4945 AS-ART 6(0,6) C.R.E.A.T. Project: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, FIL 4288C, and a satisfactory portfolio review or C.I. A practicum in which specialists from Art, Film, Computer Science and other humanities design and develop a project in partnership with industry.


ART 5109C AS-ART 3(2,4) Multi-Cultural Crafts Design: PR: ART 2201C, ART 317
200C, ART 2300C, ART 2301C, graduate status or senior standing, or C.I. The content of this course will include an appreciation for and the production of Western and Non-Western art forms.

ART 5280C AS-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.

ART 5284 AS-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.

ART 5670C AS-ART 3(2,4)
Digital Illustration: CR: ART 6683C. Methods and media effects usually associated with traditional illustration in a digital platform.

ART 5694 AS-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 "arts electronica" into the present.

ART 5695 AS-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.

ART 5696 AS-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.

ART 5698 AS-ART 3(3,0)
Concourse I: PR: ART 5910 and ART 5280C and ART 5694, or C.I. Digital reproduction of studio works.

ART 5811C AS-ART 3(3,1)
The Professional Practice of Art: PR: ART 2201C, ART 2202C, 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 Materials & Supply fee: $15.00

ART 5910 AS-ART 3(3,0)
Studio Concentration I: PR: Admission to MFA. Course is the primary for production of work in studio. Students will meet periodically with faculty to discuss progress. Professor will meet with the whole class periodically in order to facilitate a group critique of work completed. May be repeated for credit. (2 times)

ART 5934 AS-ART 3(3,0)
Concepts of Contemporary Art: PR: Graduate standing or C.I. Current issues in contemporary international art. Graded SU.

ART 5941 AS-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.

ASH 3222 AS-HIST 3(3,0)
Islam and Its Empires: PR: Junior standing or C.I. History of the Middle East and North Africa from the birth of Islam to the 16th century.

ASH 3223 AS-HIST 3(3,0)
The Modern Middle East: PR: Junior standing or C.I. History of the Middle East and North Africa from the 16th century to the present.

ASH 4304 AS-HIST 3(3,0)
Women in China: PR: AMH 2010 and AMH 2020, or EUH 2000 and EUNH 2001, or WOH 2012 and WOH 2022. Historical changes and continuities in experiences of Chinese women during the traditional period, the modern era and contemporary times.

ASH 4402 AS-HIST 3(3,0)

ASH 4404 AS-HIST 3(3,0)
China in 19th and 20th Centuries: PR: EUH 2000 and 2001 or C.I. The Mongols in China; coming of the Europeans; social structure; Communist movement; Japanese aggression.

ASH 4442 AS-HIST 3(3,0)
Modern Japan, 19th and 20th Centuries: PR: EUH 2000 and 2001 or C.I. A survey of the Tokugawa Shogunate: Western contact in the 19th century; World War I; Japanese militarism; World War II; and U.S. occupation.

ASH 5227 AS-HIST 3(3,0)
The Arab-Israeli Conflict: PR: Graduate 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.

ASH 5408 AS-HIST 3(3,0)
Colloquium in Modern China: PR: Graduate status or senior standing or C.I. Course explores works of scholarship in modern China including the rise of Communism, Chinese women and Sino-American relations.

AST 2002 AS-PHYS 3(3,0)
Astronomy: Descriptive survey of solar system, galaxies and universe; physical properties of stars, H-R diagram, stellar evolution, black holes, neutron stars.

AST 2002H AS-PHYS 3(3,0)
Honors Astronomy: PR: Permission of Honors. Descriptive survey of solar system, galaxies and universe; physical properties of stars, H-R diagram, stellar evolution, black holes, neutron stars. Honors level content.

AST 2002L AS-PHYS 1(0,3)

AST 3110 AS-PHYS 3(3,0)

AST 3211 AS-PHYS 3(3,0)

AST 3402 AS-PHYS 3(3,0)
Galaxies and Cosmology: PR: AST 2002, PHY 2053C. Study of the different types of galaxies, their evolution, their relationship to active galaxies and quasars, and the evolution of the universe.

AST 3722C AS-PHYS 3(3,0)

AST 4142 AS-PHYS 3(3,0)
Asteroids, Comets, and Meteorites: PR: AST 2002 or AST 3111. Asteroids, comets, and meteorites and their role in the origin and evolution of our solar system.

AST 4501 AS-PHYS 3(3,0)
Celestial Mechanics: PR: PHY 2048, AST 2002. The orbital motions of celestial bodies, including orbit calculation, perturbation theory, and Hoffmann transfer orbits.

AST 5165 AS-PHYS 3(3,0)
Planetary Atmospheres: PR: Mechanics PHY 3220 and Modern Physics 3101, graduate status or senior standing, or C.I. This course will examine the physical and chemical processes that govern the behavior of the atmosphere of Earth and the other planets.

AVM 2510 RCHM-HOS 3(3,0)
Airline Management: PR: Junior Standing. The trends, operation, practices, and procedures of the airline industry. Special emphasis on ticketing, scheduling, marketing, and terminal management.

BCH 4053 AS-CHEM 3(3,0)

BCH 4053H AS-CHEM 3(3,0)

BCH 4054 AS-CHEM 3(3,0)
Biochemistry II: PR: BCH 4053. Continuation of BCH 4053.

BCH 4103L AS-CHEM 2(0,6)
Biochemical Methods: PR: BCH 4053. A laboratory course stressing the application of the chemical arts to the separation, identification, and quantification of materials of biological significance. Materials & Supply fee: $45.00

BOT 3152C AS-BIOL 3(1,4)
Local Flora: PR: BSC 2010C and BSC 2011C, or C.I. The biology of wildflowers of Florida, their distribution, identification, and separation, identification, and quantification of materials of economic importance in various cultures. Materials & Supply fee: $45.00

BOT 3820C AS-BIOL 3(2,1)
Plants and the Urban Environment: PR: Junior standing or C.I. The selection, placement, propagation and care of ornamental plants in residential and industrial areas. For non-majors only. Materials & Supply fee: $15.00

BSC 4160C AS-BIOL 4(3,3)
Plant Anatomy: PR: BSC 2010C and BSC 2011C, or C.I. A study of development, structure and function of the principal organs and tissue of vascular plants. Materials & Supply fee: $15.00
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 4303C</td>
<td>AS-BIOL</td>
<td>5(3,6)</td>
<td>Plant Kingdom: PR: BSC 2010C and BSC 2011C, or C.I. A survey of the plant kingdom utilizing comparative morphology, structure and functions to demonstrate relationships among extant and extinct forms. Materials &amp; Supply fee: $40.00</td>
</tr>
<tr>
<td>BOT 4503</td>
<td>AS-BIOL</td>
<td>3(0)</td>
<td>Plant Physiology: PR: PCB 3023 or C.I. A study of mechanisms used by plants to cope with the environment.</td>
</tr>
<tr>
<td>BOT 4503L</td>
<td>AS-BIOL</td>
<td>1(0,3)</td>
<td>Plant Physiology Laboratory: CR: BOT 4503. The laboratory to accompany BOT 4503. Materials &amp; Supply fee: $15.00</td>
</tr>
<tr>
<td>BOT 4686C</td>
<td>AS-BIOL</td>
<td>4(3,3)</td>
<td>Conservation and Management of Native Plants: PR: BOT 4713C, PCB 3044 and/or BOT 4503C or C.I. Identification, conservation, propagation and management of Florida rare, endangered, indicator or reclamation species.</td>
</tr>
<tr>
<td>BOT 4713C</td>
<td>AS-BIOL</td>
<td>5(3,6)</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.</td>
</tr>
<tr>
<td>BOT 4858C</td>
<td>AS-BIOL</td>
<td>3(2,3)</td>
<td>Terrestrial Cryptogams: PR: BOT 4303C, graduate status or senior standing, or C.I. Systematic classification and identification of vascular plant families, with emphasis on the flora of peninsular Florida. Materials &amp; Supply fee: $45.00</td>
</tr>
<tr>
<td>BOT 5623C</td>
<td>AS-BIOL</td>
<td>4(3,3)</td>
<td>Plant Geography and Ecology: PR: PCB 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. Materials &amp; Supply fee: $15.00</td>
</tr>
<tr>
<td>BSC 1005</td>
<td>AS-BIOL</td>
<td>3(0)</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.</td>
</tr>
<tr>
<td>BSC 1005H</td>
<td>AS-BIOL</td>
<td>3(0)</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.</td>
</tr>
<tr>
<td>BSC 1005L</td>
<td>AS-BIOL</td>
<td>1(0,2)</td>
<td>Biological Principles Laboratory: CR: BSC 1005. The laboratory to accompany BSC 1005. Materials &amp; Supply fee: $15.00</td>
</tr>
<tr>
<td>BSC 1050</td>
<td>AS-BIOL</td>
<td>3(0)</td>
<td>Biology and Environment: Biological implications of the interaction among human society, population, and technology in relation to the environment and natural systems. Designed for non-majors.</td>
</tr>
<tr>
<td>BSC 1050L</td>
<td>AS-BIOL</td>
<td>1(0,2)</td>
<td>Biology and Environment Laboratory: CR: BSC 1050. The laboratory to accompany BSC 1050. Materials &amp; Supply fee: $15.00</td>
</tr>
<tr>
<td>BSC 2010C</td>
<td>AS-BIOL</td>
<td>4(3,2)</td>
<td>Biology I: PR: High school biology or C.I. Open only to students whose major requires this specific course. Cellular and chemical basis of life, genetics, and the theory of evolution. Emphasis on problem solving, analysis, synthesis of information, and applying data effectively. Materials &amp; Supply fee: $15.00</td>
</tr>
<tr>
<td>BSC 2011C</td>
<td>AS-BIOL</td>
<td>4(3,3)</td>
<td>Biology II: PR: BSC 2010H 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. Materials &amp; Supply fee: $20.00</td>
</tr>
<tr>
<td>BSC 2011H</td>
<td>AS-BIOL</td>
<td>4(2,6)</td>
<td>Honors Biodiversity: PR: Permission of Honors and BSC 2010H or C.I. BSC 2011C for honors students; enhanced by considerable field work, a CD-ROM &quot;text,&quot; relevant video programs and readings written by authorities in the field.</td>
</tr>
<tr>
<td>BSC 2420</td>
<td>HPA-M&amp;M</td>
<td>3(0)</td>
<td>Principles of Biotechnology: Principles, applications, laws, ethics and impact on society of biotechnology in agriculture, medicine, forestry, environment, computers/industrial/chemical engineering and business management.</td>
</tr>
<tr>
<td>BSC 3403C</td>
<td>CBBS-M&amp;M</td>
<td>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. Materials &amp; Supply fee: $25.00</td>
</tr>
<tr>
<td>BSC 3404H</td>
<td>CBBS-M&amp;M</td>
<td>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.</td>
</tr>
<tr>
<td>BSC 3424</td>
<td>CBBS-M&amp;M</td>
<td>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.</td>
</tr>
<tr>
<td>BSC 3949</td>
<td>AS-BIOL</td>
<td>0(0,8)</td>
<td>Cooperative Education in Biology: PR: Departmental permission required before registering. Cooperative education experience in biology. May be repeated. Graded S/U.</td>
</tr>
<tr>
<td>BSC 4101</td>
<td>AS-BIOL</td>
<td>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.</td>
</tr>
<tr>
<td>BSC 4312C</td>
<td>AS-BIOL</td>
<td>4(3,3)</td>
<td>Marine Biology: PR: PCB 3044 and STA 2032. The biological, ecological, physical and chemical aspects of the world's oceans. Materials &amp; Supply fee: $45.00</td>
</tr>
<tr>
<td>BSC 4422L</td>
<td>AS-BIOL</td>
<td>1-4(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 laboratories. May be repeated for credit, up to a maximum of 4 credits total. Graded S/U.</td>
</tr>
<tr>
<td>BSC 4937</td>
<td>AS-BIOL</td>
<td>2(0,2)</td>
<td>Instructional Experiences in Undergraduate Biology: PR: PCB 3063, Biology major with 80 semester hours and 3.0 gpa. Preparation of undergraduate students to more effectively learn biological concepts by facilitating learning in variety of university biology labs. May be repeated for credit. Graded S/U.</td>
</tr>
<tr>
<td>BSC 5408L</td>
<td>AS-BIOL</td>
<td>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. Materials &amp; Supply fee: $15.00</td>
</tr>
<tr>
<td>BSC 5817</td>
<td>AS-BIOL</td>
<td>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.</td>
</tr>
<tr>
<td>BTE 4410</td>
<td>ED-TLP</td>
<td>3(3,0)</td>
<td>Course Construction in Business Education: PR: EVT 3365 or C.I. An overview and examination of business curriculum and methodology integrated into the vocational frameworks. Planning and preparation of materials, managing the laboratory and involvement in vocational student organizations.</td>
</tr>
<tr>
<td>BUL 3130</td>
<td>BA-ACCT</td>
<td>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 considerations.</td>
</tr>
<tr>
<td>BUL 3130H</td>
<td>BA-ACCT</td>
<td>3(0)</td>
<td>Legal &amp; Ethical Environment of Business - Honors: PR: Junior standing and business major or minor, Admission to graduate program. Analysis of the law as a dynamic social and political institution in the business environment, including ethical considerations with honors level content.</td>
</tr>
<tr>
<td>BUL 3320</td>
<td>BA-ACCT</td>
<td>3(0)</td>
<td>Business Law I: PR: Junior Standing, Management major or minor, or minor, Introduction to law; a social and political institution in the business environment. Analysis of statutory and common law principles involved in the formation, operation, and termination of recognized business organizations. Analysis of the effects of government regulation on business activity, including anti-trust and securities regulation.</td>
</tr>
<tr>
<td>BUL 3321</td>
<td>BA-ACCT</td>
<td>3(0)</td>
<td>Business Law II: PR: Junior standing, Management major or minor, BUL 3320. Coverage of the Uniform Commercial Code, the law of commercial transactions, including sales, commercial paper, secured transactions and suretyship, contracts, wills and trusts, and property law.</td>
</tr>
<tr>
<td>BUL 4540</td>
<td>BA-MAN</td>
<td>3(0)</td>
<td>Employment Law: PR: Management major or minor, MAN 3025, CR: MAN 3301. An examination of current employment law and issues/decisions in the legal environment impacting human resource management systems design, HRM policy and employee relations.</td>
</tr>
<tr>
<td>BUL 5332</td>
<td>BA-ACCT</td>
<td>3(0)</td>
<td>Advanced Business Law Topics: PR: Admission to graduate program, or Management major or minor in term of graduation, BUL 3130. Advanced business law topics including coverage of the Uniform Commercial Code, torts, commercial paper, and secured transactions.</td>
</tr>
<tr>
<td>BUL 5810</td>
<td>BA-ACCT</td>
<td>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</td>
</tr>
</tbody>
</table>
and regulation on business activity, and the role of law and
ethics in the decision-making process.

CAP 4453 ECS-CS 3(3,0) Robot Vision: PR: COP 3530C and MAC 2122, or C.I. Pin
hole camera and eye, perspective and orthographic pro-
jections, the processing of edges, regions, motion, shading,
texture, object, robot arm usage.

CAP 4630 ECS-CS 3(3,0) Artificial Intelligence: PR: COP 3530C. Current methods
in AI: knowledge-based systems, representation, inference,
planning, natural language. Programming in Lisp or Prolog required.

CAP 4720 ECS-CS 3(3,0) Computer Graphics: PR: COP 3530C and MAC 2147, or
C.I. Math for computer graphics, visibility and shading,
graphics and data structure, curves and surfaces, com-
modity graphics hardware, and graphics API.

CAP 5015 ECS-CS 3(3,0) Multimedia Compression on the Internet: PR: seniors
and graduate students with interest in internet technology.
Multimedia data; internet technology; entropy; compres-
sion methods; lossy compression; vector quantization;
transform coding; wavelet video compression; model
based compression.

CAP 5419 ECS-CS 3(3,0) 3D Computer Vision: PR: C.I. 2D/3D Projective
Geometry, Projective Transformation Estimation, Camera
Calibration, Single View Modeling, Bi-focal Modeling,
Fundamental Matrix, Stratified Structure, Homography, Tri-
focal Tensor, Auto-Calibration, Chirality.

CAP 5512 ECS-CS 3(3,0) Evolutionary Computation: This course covers the field
of evolutionary computation, focusing on the theory and
application of genetic algorithms.

CAP 5610 ECS-CS 3(3,0) Machine Learning: PR: CAP 4630 or C.I. Origin/evalua-
tion of machine intelligence; machine learning concepts
and their applications in problem solving, planning and
"expert systems," symbolic role of human and computers.

CAP 5636 ECS-CS 3(3,0) Advanced Artificial Intelligence: PR: CAP 4630. AI the-
ory of knowledge representation, "expert systems," mem-
ory organization, problem solving, learning, planning,
vision, and natural language.

CAP 5725 ECS-CS 3(3,0) Computer Graphics: Architecture of graphics proces-
sors; display hardware; principles of programming and dis-
play software; problems and applications of graphics sys-
tems.

CBH 3003 AS-PSYCH 3(3,0) Comparative Psychology: PR: PSY 2012. A study of
comparative behaviors of lower animals.

CCE 4003 ECS-CEE 3(3,0) Introduction to the Construction Industry: PR: EGN
3613, EGN 3310, ENV 3001. Project delivery systems,
construction contracts; estimating and scheduling; ethics
and labor issues. Multi-disciplinary experience in engi-
neering.

CCE 4004 ECS-CEE 3(3,0) Construction Methods: PR: CES 4100C. Construction
project evaluation principles along with construction meth-
ods for civil and structural systems.

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 proj-
ect management such as estimating scheduling, contracts,
and administration. May be repeated for credit.

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.

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 construc-
tion productivity measurement and analysis, and discrete
event simulation.

CCE 4810C ECS-CEE 3(2,2) Construction Design Project: PR: Senior Standing, CCE
4004, and CCE 4004. The preparation and development of
a proposal and plan for a construction project, including
construction engineering systems, site facilities, construc-
tion methods, coordination, and control.

CCE 4813 ECS-CEE 4(4,0) Mechanical and Electrical Systems for Buildings: PR:
CCE 4003, PHY 2049L, CWR 3201. Design and con-
struction of mechanical and electrical systems for build-
ings.

CCE 5006 ECS-CEE 3(3,0) Introduction to Construction Industry: PR: post-bac
status or C.I. This course introduces students to the con-
struction industry. Topics include project evaluation, project
phases, project delivery systems, contracts, estimating and
schedule drawing and specifications. Research paper
required.

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.

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 sys-
tems.

CCE 5406 ECS-CEE 3(3,0) Construction Equipment and Productivity: PR: C.I.
Selection of appropriate equipment based on operational parameters. Principles of construction productivity meas-
urement and analysis Discrete event simulation.

CCE 5815 ECS-CEE 4(4,0) Mechanical and Electrical Systems for Buildings: PR:
C.I. This course covers the design and construction of
mechanical and electrical systems for buildings Research paper
required.

CCJ 3014 HPA-CJ/LS 3(3,0) Crime in America: A survey of crime and criminality in the
United States, with emphasis on crime data, its weakness-
es, and types of criminal behavior.

CCJ 3024 HPA-CJ/LS 3(3,0) Criminal Justice System: An examination of the compo-
ments and of their interdependence in light of their tradi-
tional autonomy.

CCJ 3058 HPA-CJ/LS 3(3,0) Origins of Criminal Justice: PR: CCJ 3024. Study of
criminal justice system evolution. Focus on developments
contribution to the institutions and practices of the American criminal justice
system.

CCJ 3450 HPA-CJ/LS 3(3,0) The Criminal Justice Manager: PR: CCJ 3024 or C.I.
Elements of first-line supervision and executive develop-
ment. Administrative leadership; its nature; methods, and
traits. Recent theories and research in leadership.

CCJ 3451 HPA-CJ/LS 3(3,0) Justice System Technology: PR: CCJ 3024 or C.I.
Examination of the relevance of scientific and technologi-
cal developments to justice systems and their applicability
to the operations and management of the systems.

CCJ 3483 HPA-CJ/LS 4(4,0) Labor Relations in Criminal Justice: PR: CCJ 3024 and
CCJ 3450 or C.I. Examines the role of public sector labor
relations in criminal justice to include management-
employee relationships, collective bargaining process,
employee organizations, and federal-state laws.

CCJ 3520H HPA-CJ/LS 3(3,0) Honors Juvenile Offenders: An Integrative
Perspective: PR: Permission of Honors. To provide stu-
dents with an integrative understanding of the social, psy-
chological, and legal dynamics evident in processing juve-
nile offenders.

CCJ 3667 HPA-CJ/LS 3(3,0) Victims and the CJ System: PR: CCJ 3024. Course
examines Victims as they affect the Criminal Justice sys-
tem, the dimensions of criminal victimization, and victim
offender programs.

CCJ 4035 HPA-CJ/LS 3(3,0) Crime and the Media: PR: CCJ 3024 or C.I. Explore how
the criminal justice system, criminals, and crime are por-
trayed in the media and its impact on society and the crim-
inal justice system.

CCJ 4076 HPA-CJ/LS 3(3,0) Crime Analysis II: PR: CJE 4654, CJE 4663. Designed to
provide advanced data analysis skills that will enable a crime
analysis sophisticated methodologies to crime analysis.

CCJ 4195 HPA-CJ/LS 3(3,0) Interviews & Interrogations in CJ: PR: CCJ 3024
(Criminal Justice System) and CJ Major or C.I. Criminal
justice interview process including history of criminal jus-
tice interviews, the use of Miranda, non-verbal listening,
and the rules of testimonial evidence.

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.

CCJ 4361 HPA-CJ/LS 3(3,0) Death Penalty: PR: CCJ 3024. This course provides stu-
dents an opportunity to analyze and discuss complex
issues surrounding the death penalty and the criminal jus-
tice system.

CCJ 4454 HPA-CJ/LS 3(3,0) Policy Development in Law Enforcement: PR: CJE
4034. The course is designed to deal with policy develop-
ment in law enforcement. Major issues of organization,
administration, personnel practices and police operations
will be addressed.
CEG 4101C  ECS-CEE  4(3,2)

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. Materials & Supply fee: $15.00

CEG 4812  ECS-CEE  1(1,0)
Historical Developments in Civil Engineering: Seminar covering major historical developments in civil engineering.

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.

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, geosynthetic and stability of landfill design, control of contaminated sites.

CEN 4020  ECS-CS  3(3,0)
Component-based Engineering Software: PR: EEL 4851C, EEL 4882. In-depth treatment of component-based software development including analysis design and implementation of correct and reusable software in different component levels

CEN 5016  ECS-CS  3(3,0)
Software Engineering: PR: COP 4232. Study and application of formal software development processes and documentation standards for large scale software systems. A team project is required.

CES 4100C  ECS-CEE  4(3,3)
Structural Analysis I and Lab: PR: EGN 3331. Topics in structural mechanics, analysis of determinate and indeterminate structures by flexibility and stiffness methods, computer and laboratory exercises on behavior of structures and materials.

CES 4101  ECS-CEE  3(3,0)
Structural Analysis II: PR: CES 4100C. Special structures; introduction to matrix structural analysis, dynamic loads including wind and earthquake.

CES 4605  ECS-CEE  3(3,0)
Steel Structures: PR: CES 4600C. Design of structural steel members and buildings; emphasis on AISC-ASD building code; introduction to AISC-LRFD building code; tension and compression members, beams, beam-columns, connections.

CES 4608C  ECS-CEE  3(2,2)
Steel Design: PR: CES 4605. Project course on design of steel components, connections, and frame structures using AISC specifications. Materials & Supply fee: $15.00

CES 4702  ECS-CEE  3(3,0)
Reinforced Concrete Structures: PR: CES 4600C or C.I. Design of RC members using ACI code; beam flexure and shear; compression bending; bond and development; introduction to continuous frames.

CES 4709C  ECS-CEE  3(2,2)
Concrete Design: PR: CES 4702. Project course on design of concrete structures using concrete and structural analysis methodologies. Materials & Supply fee: $15.00

CES 5325  ECS-CEE  3(3,0)
Bridge Engineering: PR: CES 4605; CES 4702. Structural systems for bridges, loading, analysis by influence lines, slab and girder bridges, composite design, prestressed concrete, rating of existing bridges, specifications and economic factors.

CES 5606  ECS-CEE  3(3,0)
Advanced Steel Structures: PR: CES 4605. Behavior and design of steel buildings; emphasis on AISC-LRFD building code; complex connections, tension members, stability of compression members, laterally unsupported beams, frames, and beam columns.

CES 5706  ECS-CEE  3(3,0)
Advanced Reinforced Concrete: PR: CES 4702 or C.I. Design of frames, two-way floor systems, shear walls, shear and torsion; compression field theory; inelastic analysis; wind and seismic design; introduction to prestressed concrete.

GET 1105. An introduction to IT field, including binary representation, programming and hardware architecture. May be repeated for credit.

GET 427  ECS-ENT  3(3,0)
Applied Database I: PR: CET 2364 or equivalent. Design and implementation of data base systems within the concept of central administration, structured data storage. Programming project. May be repeated for credit.

GET 429  ECS-ENT  3(3,0)
Applied Database II: PR: CET 4427. Continuation of CET 427. Study of hierarchical database system. Programming project is required. May be repeated for credit.

GET 449C  ECS-ENT  3(2,2)

GET 4483  ECS-ENT  3(3,0)
Intro to Local Area Network Technology: PR: CET 3065C or equivalent or C.I. An introductory level course in local area networks. Topics in data communications, computer networking, local area network technology, topologies, and protocols will be covered. May be repeated for credit.

GET 4505  ECS-ENT  3(3,0)
Applied Operating Systems I: PR: CET 2364. Modifying the operating systems to support new types of devices. Analysis of limitations and strengths of commercial mass storage operating systems in industry. O.S. tool box usage. May be repeated for credit.

GET 4523  ECS-ENT  3(3,0)
Applied Operating Systems II: PR: CET 4505. Continuation of CET 3883, with emphasis on distributed processing which includes the interfacing of minis, mainframes, software, communications, and data base technology into a responsive information system.
Public Works Engineering: PR: ENV 3001 and CWR 3201. An overview of planning, design, operation and maintenance of public works, with emphasis on water and wastewater treatment plants. May be repeated for credit.

CGN 4808C ECS-CEE 3(2,2) Civil Engineering Capstone Design: PR: one of the following courses - TTE 4801C, CES 4808C, CES 4709C, CWR 4821C, ENV 4962C, CEG 4801C, or CES 4608C. An interdisciplinary capstone design experience requiring problem definition, data collection, analysis of alternatives, economic evaluation of alternatives, and oral and written presentation of final design.

CGN 5320C ECS-CEE 3(2,2) Geographic Information systems: Programming theory and application of Geographic Information Systems to Civil Engineering projects.


CGS 3763 ECS-CS 3(3,0) Operating System Concepts: PR: CGS 1060C. System calls, concept of processes, CPU scheduling, security issues, client server paradigms, and computer supported workgroups.


CHM 2045H AS-CHEM 4(3,3)
Honors Chemistry Fundamentals I: PR: High school chemistry and permission of Honors. Same as CHM 2045C with honors-level content. Materials & Supply fee: $25.00

CHM 2046 AS-CHEM 3(3,0)
Chemistry Fundamentals II: PR: "C" grade or better in CHM 2045C. Continuation of CHM 2045C.

CHM 2046H AS-CHEM 3(3,0)
Honors Chemistry Fundamentals II: PR: CHM 2045H and permission of Honors. Same as CHM 2046 with honors-level content.

CHM 2046L AS-CHEM 1(0,3)
Honors Chemistry Fundamentals Lab: PR: CHM 2045H and CR: CHM 2046H. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry with honors-level content. Materials & Supply fee: $35.00

CHM 2046L AS-CHEM 1(0,3)
Chemistry Fundamentals Laboratory: CR: CHM 2046. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry. Materials & Supply fee: $45.00

CHM 2205 AS-CHEM 5(5,0)
Introduction to Organic and Biochemistry: PR: CHM 1032 or equivalent. An introduction to organic chemistry, stressing the chemistry of functional groups and a survey of the biochemistry of proteins, carbohydrates, lipids, and nucleic acids.

CHM 2210 AS-CHEM 3(3,0)

CHM 2211 AS-CHEM 3(3,0)

CHM 2211L AS-CHEM 2(0,6)
Organic Laboratory Techniques I: PR: CHM 2210. Introduction to the laboratory techniques of organic chemistry, including the preparation, reaction, and analysis of organic compounds. Materials & Supply fee: $25.00

CHM 3120C AS-CHEM 5(3,6)
Analytical Chemistry: PR: CHM 2046, CHM 2046L. Laboratory practices of classical and instrumental analysis. Choice of preferred analytical methods and techniques is emphasized through applications involving both inorganic and organic systems. Materials & Supply fee: $25.00

CHM 3212L AS-CHEM 2(0,6)
Organic Laboratory Techniques II: PR: CHM 2211L and CHM 2211L. Open-end laboratory to develop synthesis techniques and structure elucidation skills. Materials & Supply fee: $45.00

CHM 3410 AS-CHEM 4(3,1)
Physical Chemistry I: PR: CHM 2046, PHY 2049, and MAC 2312. Rigorous treatment of atomic and molecular structure, thermodynamics, kinetics, and chemical bonding.

CHM 3411 AS-CHEM 3(3,0)
Physical Chemistry II: PR: CHM 3410. Continuation of CHM 3410.

CHM 3411L AS-CHEM 2(0,6)
Physical Chemistry Laboratory: PR: CHM 3120C and CR: CHM 3411. Classical as well as modern instrumental techniques coupled with computer data processing to measure physical properties and determine atomic and molecular parameters. Materials & Supply fee: $41.00

CHM 3422 AS-CHEM 3(3,0)
Applied Physical Chemistry: PR: PHY 2049 and PHY 2049L and MAC 2312. Physical chemistry as applied to the study of biological and forensic science.

CHM 4130C AS-CHEM 4(2,6)
Advanced Analytical Laboratory Technique: PR: CHM 2211, CHM 3120C and CHM 3411. A lecture-laboratory course designed to give in-depth coverage to modern methods of analysis including electrochemistry, spectroscopy, and separation techniques. Materials & Supply fee: $25.00

CHM 4220 AS-CHEM 3(3,0)
Organic Chemistry III: PR: CHM 2211 or its equivalent. Organic reaction mechanisms and retrosynthetic analysis and their application to synthetic chemistry.

CHM 4610 AS-CHEM 3(3,0)

CHM 4610L AS-CHEM 2(0,6)
Inorganic Chemistry Laboratory: PR: CHM 4610. A study of physical and chemical properties and synthetic techniques in Inorganic Chemistry. Materials & Supply fee: $25.00

CHM 4914C AS-CHEM 1(1,1)
Undergraduate Research Methods: PR: CHM 2211 or C.I. Selection of a research project, instruction in literature searching, seminar preparation, and laboratory techniques beyond the scope of typical chemical laboratories.

CHM 4930 AS-CHEM 1(1,0)
Undergraduate Chemistry Seminar: PR: CHM 3411 and CHM 4914C. A topic of current chemical interest will be presented by students at a regularly scheduled departmental seminar.

CHM 5225 AS-CHEM 3(3,0)
Advanced Organic Chemistry: PR: CHM 2211, 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.

CHM 5235 AS-CHEM 3(3,0)
Applied Molecular Spectroscopy: PR: CHM 3120C and CHM 2211, and graduate status or senior standing or C.I. Identification from plants, synthesis, assessment of bioactivity, and design of pharmaceuticals and agrochemicals, as well as the impact of biotechnology in the chemical industry.

CHM 5305 AS-CHEM 3(3,0)
Applied Biological Chemistry: PR: CHM 2211, and graduate status or senior standing or C.I. Identification from plants, synthesis, assessment of bioactivity, and design of pharmaceuticals and agrochemicals, as well as the impact of biotechnology in the chemical industry.

CHM 5450 AS-CHEM 3(3,0)
Polymer Chemistry: PR: CHM 2211, and graduate status or senior standing or C.I. An introduction to the chemistry of synthetic polymers. Synthetic methods, polymerization mechanisms, characterization techniques, and polymer properties will be considered.

CHM 5451C AS-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. Materials & Supply fee: $45.00

CHM 5580 AS-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.

CHM 5715C AS-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.

CHS 1440 AS-CHEM 4(3,1)
Fundamentals of Chemistry for Engineers: PR: One year of high school chemistry or CHM 1032. Basic concepts of chemistry, with emphasis on problem solving and engineering applications. Atomic and molecular structure, states of matter, stoichiometry, equilibria, electrochemistry and thermodynamics. The "NC" grading policy applies to this course.

CHS 3501 AS-CHEM 3(3,0)
Introduction to Forensic Science: PR: "C" grade or better in CHM 2046 & L or C.I. Intended for majors and non-majors to provide an overview of the specialty areas in Criminalistics (crime lab).

CHS 3505C AS-CHEM 4(2,6)
Forensic Microscopy: PR: "C" grade or better in CHM 2046 & L, PR 2049C, and CHS 3501. The study of the polarized light microscope and its use in the identification and comparison of trace evidence. Materials & Supply fee: $45.00

CHS 3511C AS-CHEM 4(2,6)
Trace Evidence: PR: "C" grade or better in CHS 3505C. An advanced study of the techniques used to identify and compare trace evidence. Materials & Supply fee: $45.00

CHS 3514C AS-CHEM 3(2,3)
Bomb Scene Investigation: PR: Forensic Science major, CHS 3501 or C.I. Procedures for recognizing, collecting, preserving, and analysis of evidence from a post blast bombing crime scene. May be repeated for credit.

CHS 3530C AS-CHEM 4(2,6)
Forensic Analysis of Controlled Substances: PR: "C" grade or better in CHM 3120C, CHM 3410, CHM 2211 & L and CHS 3505C. The study of the presumptive tests, isolation, and instrumental techniques used in identification of controlled substances. Materials & Supply fee: $45.00

CHS 3533C AS-CHEM 3(2,3)
Forensic Biochemistry: PR: "C" or better in BSC 2010C, PCB 3063 & L, and PCB 3233 & L. Introduction to the concepts and procedures of contemporary forensic biochemistry, including the identification of body fluids and the use of genetic markers to establish identity. Materials & Supply fee: $30.00

CHS 3540C AS-CHEM 2(1,3)
Fire and Debris Analysis: PR: CHM 3120C and C.I. A lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in fire related evidence.

CHS 3595 AS-CHEM 3(3,0)
Forensic Science in the Courtroom: PR: CHS 3501. The special needs of the forensic scientist in preparing for and participating in courtroom proceedings.

CHS 3949 AS-CHEM 0(0,8)
Cooperative Education in Chemistry: PR: Departmental permission required before registering. Cooperative education experience in chemistry. May be repeated. Graded S/U.
CHS 4200 AS-CHEM 3(3,0) Concepts in Industrial Chemistry: PR: CHM 3410. An introduction to industrial practices, emphasizing the application of chemical principles in the development of a commercial process or product.

CHS 4506C AS-CHEM 3(2,3) Forensic Investigation Technology: PR: A grade of "C" or better in CHS 351C. Modern technology applied to forensic investigation.

CHS 4515C AS-CHEM 4(2,6) Forensic Crime Scene Investigation: PR: Grade of "C" or better in CHM 3102C, CHS 351C, CHS 3533C and CHS 4506C. Procedures for the investigation of arson, explosives, and crime scenes.

CHS 4532 AS-CHEM 3(3,0) Interpretation of DNA Evidence: PR: Grade of "C" or better in CHS 3533C. Concepts and principles of genetic data analysis as applied to forensics.

CHS 4534C AS-CHEM 3(1,6) Forensic Biochemistry II: PR: CHS 3533C and C.I. Advanced treatment of the theoretical and practical aspects of forensic DNA analysis and the use of population genetics and genetic data analysis for evidence interpretation. Materials & Supply fee: $45.00

CHS 4537 AS-CHEM 2(2,0) Forensic Laboratory Quality Assurance: PR: Grade of "C" or better in CHS 3510, CHS 3505C, and CHS 3533C. Concepts and principles of quality assurance and quality systems management in forensic laboratories.

CHS 4541C AS-CHEM 2(1,3) Fire and Debris Analysis II: PR: CHS 3540C or C.I. An advanced lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in real fire related evidence.


CHS 4591 AS-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.

CHS 4615 AS-CHEM 3(3,0) Environmental Chemistry: PR: CHM 2046, senior level in biological, molecular, chemical or engineering sciences, or C.I. Principles of environmental chemistry, survey of environmental law, remediation technologies, industrial practices and environmentally responsible chemistry.

CHS 5502 AS-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.

CHS 5503 AS-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.

CHS 5518 AS-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.

CHS 5596 AS-CHEM 3(3,0) The Forensic Expert in the Courtroom: PR: CHS 3533, CHS 653S, CHS 653E, or C.I. A study of the uses of technical and scientifically trained expert witnesses at trial.


CJC 3134 HPA-CJ/LS 3(3,0) Prisons and jails: PR: CJC 3010. An overview and analysis of issues in institutional corrections, focusing on prison and jail history, inmates, guards, administration and management, and programming.

CJC 3164 HPA-CJ/LS 3(3,0) Community-Based Corrections: PR: CJC 3024 and CJC 3010 or C.I. An overview and analysis of correction interventions and treatment programs in the community.

CJC 4410 HPA-CJ/LS 3(3,0) Correctional Interventions in Criminal Justice: PR: CJC 3024. Intervention techniques used with juvenile and adult offenders in institutional and community-based settings and study of the theoretical foundations.

CJC 5020 HPA-CJ/LS 3(3,0) Foundations of Corrections: PR: C.I. Provides an overview of correctional process in U.S., including philosophical foundations and contemporary practices.


CJE 3662 HPA-CJ/LS 3(3,0) CJ Information Technology and Data Management: PR: CJC 3024. Designed to familiarize with concepts of databases, uses, and applicability to crime analysis.

CJE 4014 HPA-CJ/LS 3(3,0) Police and Society: PR: CJC 3024. An examination of the varied roles of police in contemporary society. Emphasis is on dynamics of police/citizen interactions and the police subculture.


CJE 4410 HPA-CJ/LS 3(3,0) Community Policing: PR: CJC 3014, CJE 4014. The viability of community policing. The theoretical basis for community interventions are related to the daily operations required by community policing.

CJE 4630 HPA-CJ/LS 3(3,0) Serial Murder and Criminal Justice: PR: CJC 3014. Study of extent, types, and explanations of serial murder, and responses of the general public, law enforcement, and prosecution.

CJE 4654 HPA-CJ/LS 3(3,0) Crime and Place: PR: CJC 3024. Provides an understanding of how physical environmental features - the natural and built environment - influence crime events.

CJE 4663 HPA-CJ/LS 3(3,0) Crime Analysis: 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.

CJE 5688 HPA-CJ/LS 3(3,0) Cyber Crime and Criminal Justice: PR: CJC 5015. Deals with the problem of cyber crime and the criminal use of the Internet. Includes investigation, enforcement and legal issues.

CJJ 4564 HPA-CJ/LS 3(3,0) Delinquency Control: PR: CJC 3024 and CJC 3810 or C.I. Examination of programs and institutions including juvenile court process, intake services, and remedial procedures and practices.

CJL 3110 HPA-CJ/LS 3(3,0) Criminal Law in Action: Basic concepts of criminal law: elements of major crimes, criminal responsibility, defenses, and parties to crime.

CJL 3510 HPA-CJ/LS 3(3,0) Prosecution and Adjudication: PR: CJC 3024 or PLA 3013 or C.I. Examination of structures and goals of offices and prosecution and criminal trial courts, and of the processes of charging, adjudicating, and sentencing defendants.

CJL 4010 HPA-CJ/LS 3(3,0) Legal Aspects of Policing: PR: CJE 4014. The legal dimensions of various police decision-making stages: including stops and frisks; arrests; searches and seizures wiretappings; and, interrogations.

CJL 4410 HPA-CJ/LS 3(3,0) Legal Aspects of the Criminal Court Process: PR: CJC 3024, PLA 3013. The legal dimensions of various criminal court decision making stages, including bail; charging; preliminary hearing; grand jury; pretrial hearings plea hearings; trial; and, sentencing.


CJT 3803 HPA-CJ/LS 3(3,0) Security Management: PR: CJC 3024. Examination of a global security management environment impacted by downsizing a dramatically changing work force, religious extremism/terrorism, technological revolution and other challenges.

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.

CJT 3819 HPA-CJ/LS 3(3,0) Physical Security: PR: C.J. major or minor or C.I./CCJ 3024. Concepts and procedures for the development, implementation, and management of a physical security program and its application to assets protection.

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.

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.
Clinical practice of psychology within the legal system, Forensic Psychology:

- CLP 3184 AS-PSYCH 3(3,0) Women's Mental Health: PR: PSY 2012. Social and cultural factors of mental health issues and conditions that are unique to or primarily impact women in the U.S. today.
- CLP 3302 AS-PSYCH 3(3,0) Clinical Psychology: PR: PPE 3003 and CLP 3143. An overview of approaches to psychopathology; methods of clinical assessment, and various approaches to individual and group counseling.
- CLP 3413 AS-PSYCH 3(3,0) Contemporary Behavior Therapy: PR: CLP 3143. Emphasis on the underlying principles and the specific intervention procedures which are utilized in contemporary behavior therapy, including treatment strategies for particular behavior disorders.
- CLP 3467C AS-PSYCH 3(2,2) Interpersonal Effectiveness and Group Psychotherapy: PR: PSY 2012. Psychological aspects of interpersonal relationships, the rationale for group therapy, and strategies for enhancing interpersonal skills and personal growth.
- CLP 4314 AS-PSYCH 3(3,0) Health Psychology: PR: CLP 3143, PSB 3002, PPE 3003. Interactions between psychosocial and physical conditions, in prevention, diagnosis, intervention and health care delivery policy planning. Course will cover empirical phases for prevention, assessment and intervention approaches for these focal areas: cancer, chronic heart disease, diabetes, HIV disease, pain and stress.
- CLP 4390 AS-PSYCH 3(3,0) Forensic Psychology: PR: PSY 2012 and SOP 3751. Clinical practice of psychology within the legal system, including forensic evaluation of competency/insanity, treatment, and criminal profiling.
- CLP 5166 AS-PSYCH 3(3,0) Advanced Abnormal Psychology: PR: Graduate status or senior standing or C.I. Consideration of classification, causation, management and treatment of emotional disorders. Review of theories and research in the field. Lecture/Laboratory.
- CLP 5187 AS-PSYCH 3(3,0) Mental Health and Aging: PR: Graduate status or senior standing or C.I. Introduction to assessment and intervention issues, practice and research related to problems with cognitive and emotional functioning among older adults. May be repeated for credit.
- CMC 4240 AS-R/TV 3(1,2) Corporate/Institutional Video: PR: RTV 3200, RTV 3280C (RTV 3260 may be taken concurrently). Preparation of non-broadcast corporate/institutional video programs including planning, budgeting, production, and evaluation.
- COM 1000 AS-COMM 3(3,0) Communication: Basic factors affecting human interaction through communication, theories and models of communication.
- COM 2347C AS-COMM 1(1,1) Sports Speaking and Interviewing: PR: SPC 1600. Prerequisite to prepare students to speak in public forums and to participate in interviews with the mass media. Graded S/U.
- COM 3011C AS-COMM 3(1,2) Communication and Human Relations: PR: or CR: COM 3311. Semantics; symbols and meaning and their relationship with human behavior.
- COM 3013 AS-COMM 3(3,0) Communication and the Family: PR: SPC 1600. The ways members of a family unit interact verbally and non-verbally to influence one another.
- COM 3110 AS-COMM 3(3,0) Business and Professional Communication: PR: Majors only, SPC 1600 or C.I. Theoretical and practical training in effective presentational speaking for business and professions.
- COM 3110H AS-COMM 3(3,0) Honors Business and Professional Communication: PR: Majors only, SPC 1600 or C.I. Theoretical and practical training in effective presentational speaking for business and professions. With Honors content.
- COM 3120 AS-COMM 3(3,0) Organizational Communication: PR: COM 3311. A study of communication functions and problems within the contexts of hierarchies.
- COM 3311 AS-COMM 3(3,0) Communication Research Methods: PR: STA 2014C. Research methods used in communication. Understanding and interpretation of original research emphasized.
- COM 3330 AS-COMM 3(3,0) Computer Mediated Communication: PR: CGS 1060C. Communicating through computers. The foundations and applications of online and interactive multimedia applications, including trends and limitations.
Computer Science I. Object-oriented design, data structures, traversal algorithms and program correctness.

COP 3530C ECS-CS 3(3,0)
Computer Science II: PR: COP 3560 Foundation Exam. Algorithm design and analysis for tree, list, set, relational and graph data models; effects of representation on algorithmic complexity. Introduction to parallel implementations.

COP 4020 ECS-CS 3(3,0)
Programming Languages I: PR: COP 3530C. Survey of programming languages (LISP, MODULA, SIMULA, SMALLTALK, ADA, C, etc.). Basic concepts underlying programming languages: data typing, data abstraction, binding, parameter evaluation, concurrency, functional programming.

COP 4020H ECS-CS 3(3,0)
Honors Programming Languages I: PR: Consent of Honors and COP 3530C. Deeper understanding of the paradigms and fundamental concepts of programming languages, such as scope, binding, abstraction, encapsulation, typing, etc. Object-oriented, functional and logic programming paradigms will be introduced through programming languages. With Honors content.

COP 4232 ECS-CS 3(3,0)
Software Systems Development: PR: COP 3560 (Foundation Exam) and COP 3530C. The principles, processes and methods for developing large software systems in object-oriented programming languages such as Ada and C++.

COP 4516C ECS-CS 3(1,3)
Problem Solving Techniques and Team Dynamics: PR: COP 3530C. Design and implement solutions to problems requiring the applications of the different algorithms. Team project format.

COP 4520 ECS-CS 3(3,0)
Concepts of Parallel and Distributed Processing: PR: COP 3530C, COP 3402C. Parallel and distributed paradigms, architectures and algorithms, and the analytical tools, environments and languages needed to support these paradigms.

COP 4521 ECS-CS 3(3,0)
Projects in Parallel and Distribution Processing: PR: COP 4520. Research and projects related to emerging architectures, computational models, languages and environments for parallel and distributed computation.

COP 4600 ECS-CS 3(3,0)
Operating Systems: PR: COP 3402C and COP 3530C. The function and organization of operating systems, process management, virtual memory, and file management.

COP 4600H ECS-CS 3(3,0)
Honors Operating Systems: PR: Permission of Honors and COP 3402C and COP 3530C. Same as COP 4600 with Honors level content.

COP 4610L ECS-CEE 3(0,3)
Operating Systems Laboratory: PR: COP 3560C. CR: EEL 482X. Exercises in the configuration, development, management and analysis of operating systems; OS Kernel support for semaphores and multi-tasking; security in a distributed heterogeneous environment.

COP 4710 ECS-CS 3(3,0)
Database Systems: PR: COP 3530C. Storage and access Structures, database models and languages, related database design, and implementation techniques for database management systems.

COP 4910 ECS-CS 3(3,0)
Frontiers in Information Technology: PR: COP 4610L. Research into leading edge information technologies that have a high likelihood of affecting the work place in the two to five year time frame.

COT 5021 ECS-CS 3(3,0)

COT 5537 ECS-CS 3(3,0)
Network Optimization: Recent advances in the theory and computational techniques for optimal design and analysis of large networks for computers, communications, transportation, web and other applications.

COT 5611 ECS-CS 3(3,0)

COT 5711 ECS-CS 3(3,0)
Parallel and Distributed Database Systems: PR: COT 4710. Storage manager, implementation techniques for parallel DBMSs, distributed database design, query processing, multidatabase systems.

COT 3100C ECS-CS 3(3,1)

COT 3100H ECS-CS 3(3,0)

COT 3960 ECS-CS 0(1,0)
CS Foundation Exam: PR: COP 3502C and COT 3100C. Foundation examination for computer science majors. Required before taking COP 3530C, and COP 3402C and other 4000 level courses. Graded S/U.

COT 4110 ECS-CS 3(3,0)

COT 4210 ECS-CS 3(3,0)
Discrete Computational Structures: PR: COP 3530C. Introduction to computation theory. A study of the properties of grammars and automata as formal specifications for algorithms and families of languages.

COT 4500 ECS-CS 3(3,0)

COT 4810 ECS-CS 3(3,0)
Topics in Computer Science: PR: COP 3530C and COP 3420C. A range of topics from the field of Computer science: application of oral and written communication skills; social, ethical and moral issues of computing.

COT 5310 ECS-CS 3(3,0)
Formal Languages and Automata Theory: PR: COT 4020 and COT 4210. Classes of formal grammars and their relation to automata, normal forms, closure properties, decision problems. LR(K) grammars.
UCF Courses and Descriptions

CPO 4123 AS-POLS 3(3,0) Government and Politics of Great Britain: A survey of British government, society, politics and institutions, emphasizing parliamentary traditions. Britain's foreign policy and European role will be discussed.

CPO 4303 AS-POLS 3(3,0) Comparative Latin American Politics: Comparative analysis of politics, society and culture in Latin America and selected countries of the region.

CPO 4445 AS-POLS 3(3,0) Comparative Political Parties: PR: POS 2041, and Junior standing or C.I. Theories of the formation, structures, organization, and behavior of political parties and political party systems in comparative perspective.

CPO 4553 AS-POLS 3(3,0) Politics of Japan: PR: POS 2041 or CPO 3103 or C.I. Evolution of the Japanese political system and how domestic and international politics influence the functioning of the Japanese economy.

CPO 4643 AS-POLS 3(3,0) Government and Politics of Russia: Study of the origins, institutions, and functioning of the Russian system, including the lingering influence of the old order on domestic and foreign policy.

CPO 4710 AS-POLS 3(3,0) Women in Comparative Politics: PR: Junior standing or C.I. A cross-national perspective on women and politics; how women behave politically in various political and economic contexts.

CPO 4754 AS-POLS 3(3,0) Comparative Political Institutions: PR: POS 2041, Jr. standing or C.I. The course analyzes major types of political institutions from a comparative perspective including electoral laws, division of power, types of democracy, federalism, and the judiciary.

CPO 4784 AS-POLS 3(3,0) Political and Economic Inequality in Comparative Perspective: PR: POS 2041, Jr. standing or C.I. Economic and political inequality and the nature of the link between them across countries with different political and economic institutions.

CPO 5334 AS-POLS 3(3,0) Contemporary Politics of the Mayan Region: PR: Graduate status or senior standing or C.I. Analysis of issues affecting all peoples living in the contemporary Mayan region of southern Mexico, Belize, Guatemala, and El Salvador.

CRW 2100 AS-ENG 3(3,0) Fiction Writing: PR: CRW 3013. English majors in creative writing specialize in fiction writing; advanced group analysis and criticism of work produced by individual students.

CRW 2300 AS-ENG 3(3,0) Theory and Practice of Poetry Writing: PR: CRW 3013, English or English Education major, Junior standing, or C.I. English majors in creative writing specialize in the theory and practice of verse; group analysis and criticism.

CRW 3010H AS-ENG 3(3,0) Honors Creative Writing: PR: Honors GEP completion and permission of Honors. Theory and techniques of literary genres with honors level content; practice and critique of original writing by peers and critical reading of established authors.

CRW 3013 AS-ENG 3(3,0) Creative Writing for English Majors: PR: ENC 1102 and English or English Education major, Junior standing, or C.I. Literary genres; practice and critique of peer writing, critical reading of established authors. Not open to students with credit in CRW 3XXX (Creative Writing for non-majors).

CRW 3120 AS-ENG 3(3,0) Fiction Writing Workshop: PR: ENC 1102 and (CRW 2100 or CRW 3013) and Junior standing. An intermediate level fiction writing workshop for English majors; group analysis and criticism; close reading of contemporary fiction and fiction theory.

CRW 3211 AS-ENG 3(3,0) Creative Nonfiction Writing: PR: CRW 3013 and English or English Ed major or C.I. Writers present original nonfiction writing for class response and individual conferences. Close reading of key works of creative nonfiction with discussion of definitions of the genre.

CRW 3310 AS-ENG 3(3,0) Poetry Writing Workshop: PR: 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.


CRW 3540 AS-ENG 3(3,0) Literary Magazines: PR: CRW 3013. Examination of fiction and poetry trends in current literary magazines, identifying editorial policies in publication of contemporary literature.

CRW 3610 AS-ENG 3(3,0) Writing Scripts: PR: CRW 3013 or C.I. Theory and practices of writing scripts for film and TV.


CRW 4122 AS-ENG 3(3,0) Advanced Fiction Writing Workshop: PR: CRW 3120. Intensive writing practice in fiction. Peer critique and group discussion of original manuscripts. May be repeated once for credit.

CRW 4123 AS-ENG 3(3,0) Science Fiction Writing: PR: CRW 3013. Study of science fiction literature and writing of original science fiction stories. Workshop format with critique of writing assignments.

CRW 4224 AS-ENG 3(3,0) Advanced Nonfiction Workshop: PR: CRW 3013 and CRW 3211 (or equivalent and permission based on submission of manuscript). Advanced creative nonfiction, through intensive reading, writing, and workshop. The genre draws upon memory, observation, and techniques of fiction, poetry, and journalism. May be repeated for credit.

CRW 4320 AS-ENG 3(3,0) Advanced Poetry Writing Workshop: PR: CRW 3013 and CRW 3310, or CRW 2300. Intensive writing practice in poetry. Peer critique and group discussion of original manuscripts. May be repeated once for credit.

CRW 4616 AS-ENG 3(3,0) Advanced Scriptwriting: PR: CRW 3610. Intensive practice in writing scripts. Peer critique and group discussion of original manuscripts. May be repeated for credit.

CRW 5020 AS-ENG 3(3,0) Graduate Writing Workshop: PR: Graduate status or senior standing or C.I. Student writers present their own work, receiving detailed analysis of its strengths and weaknesses from their fellow writers and from the teacher.

CRW 5130 AS-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.

CRW 5932 AS-ENG 2(1,1) Teaching Creative Writing: PR: Graduate status or senior standing or C.I. Creative writing practicum. May be repeated for credit.

CRW 5948C AS-ENG 2(1,1) 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.

CWR 3201 AS-POLS 3(3,0) Engineering Fluid Mechanics: PR: MAP 2302; CR: EGN 3343. Fundamentals of fluid mechanics with hydraulic applications: fluid properties, hydrostatics, dimensional analysis, energy, momentum, continuity, and steady flow.

CWR 4203C AS-ECE 3(3,0) Hydrology: PR: STA 3032; CWR 3201. Hydrological cycle, probabilistic forecasting, rainfall excess meteorology, groundwater, storm-water runoff, flood routing and design applications. Materials & Supply fee: $15.00.

CWR 4812C AS-ECE 3(2,2) Water Resources Design: PR: CWR 4101C & CWR 4203C. Project course for the design of storm water and sewer transmission systems using local and state regulations. Materials & Supply fee: $15.00

CWR 5125 AS-ECE 3(3,0) Groundwater Hydrology: PR: CWR 4203C or equivalent. Theories of groundwater movement, geological factors, analysis and design techniques, etc. Emphasis on practical considerations.


CWR 5545 AS-ECE 3(3,0) Water Resources Engineering: PR: CWR 4101C, CWR 4203C. Systems identification and solution to complex water allocation problems, and other hydraulic engineering designs and operations using economic analysis and operations research techniques.

DAA 2100C AS-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.

DAA 2101C AS-THEA 2(2,1) Modern Dance II: PR: DAA 2100C and DAA 2200C and Theatre major, Dance minor, or department consent. Intermediate exploration of form, style, and technique in creative movement, including practical class work and history lectures.
DAA 2200C AS-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.

DAA 2201C AS-THEA 2(2,1) 
Ballet II: PR: DAA 2200C and Theatre major, Dance minor, or department consent. Intermediate classical ballet technique, including principles, theory, and practice technique.

DAA 2393C AS-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.

DAA 2520C AS-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.

DAA 2521C AS-THEA 2(2,1) 
Tap Dance II: PR: DAA 2520C and Theatre major, Dance minor, or department consent. Intermediate exploration of form, style, and technique of tap dance.

DAA 2540 AS-THEA 3(2,2) 
Dance Technique I: PR: or CR:THE 2020 or THE 2020 or departmental consent. The study and application of fundamental dance techniques as they relate to musical theatre dance styles.

DAA 2570C AS-THEA 3(2,1) 
Jazz Dance I: PR: Theatre major, Dance minor, or department consent. Basic movements of American Jazz dance, including practical class work and Jazz dance history.

DAA 2571C AS-THEA 2(2,1) 
Jazz Dance II: PR: DAA 2570C and Theatre major, Dance minor, or department consent. Intermediate Jazz dance using theory and practice in jazz technique.

DAA 2610 AS-THEA 3(3,0) 
Dance Improvisation/Composition I: PR: DAA 2100C, Theatre major, Dance minor, or department consent. Fundamental study and exploration of dance composition.

DAA 2640 AS-THEA 3(2,2) 
Theatre Dance Choreography and Performance: PR: By audition. Students will create and present a piece choreographed and performed by other dancers in concert. May be repeated for credit.

DAA 3020C AS-THEA 2(2,1) 
Modern Dance III: PR: DAA 2101C and Theatre major, Dance minor, or department consent. Advanced exploration of form, style, and technique in creative movement. May be repeated for credit.

DAA 3022C AS-THEA 2(2,1) 
Ballet III: PR: DAA 2001C and Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3024C AS-THEA 2(2,1) 
Tap Dance III: PR: DAA 2521C and Theatre major, Dance minor, or department consent. Advanced exploration of form, style, and technique of tap dance. May be repeated for credit.

DAA 3060 AS-THEA 2(2,1) 
Orchestration and Conducting: PR: DAA 2100C and Theatre major. May be repeated for credit.

DAA 3100 AS-THEA 3(3,0) 
Modern Dance I: PR: DAA 2100C and Theatre major. May be repeated for credit.

DAA 3102 AS-THEA 2(2,1) 
Jazz Dance II: PR: DAA 2520C and Theatre major, Dance minor, or department consent. Intermediate Jazz dance using theory and practice in jazz technique.

DAA 3125C AS-THEA 2(2,1) 
Jazz Dance III: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3135C AS-THEA 2(2,1) 
Jazz Dance IV: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3140 AS-THEA 2(2,1) 
Jazz Dance V: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3150 AS-THEA 2(2,1) 
Jazz Dance VI: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3160 AS-THEA 2(2,1) 
Jazz Dance VII: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3170 AS-THEA 2(2,1) 
Jazz Dance VIII: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3180 AS-THEA 2(2,1) 
Jazz Dance IX: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3190 AS-THEA 2(2,1) 
Jazz Dance X: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3200 AS-THEA 2(2,1) 
Jazz Dance XI: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3210 AS-THEA 2(2,1) 
Jazz Dance XII: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3220 AS-THEA 2(2,1) 
Jazz Dance XIII: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3230 AS-THEA 2(2,1) 
Jazz Dance XIV: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3240 AS-THEA 2(2,1) 
Jazz Dance XV: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3250 AS-THEA 2(2,1) 
Jazz Dance XVI: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3260 AS-THEA 2(2,1) 
Jazz Dance XVII: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3270 AS-THEA 2(2,1) 
Jazz Dance XVIII: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3280 AS-THEA 2(2,1) 
Jazz Dance XIX: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3290 AS-THEA 2(2,1) 
Jazz Dance XX: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3300 AS-THEA 2(2,1) 
Jazz Dance XXI: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3310 AS-THEA 2(2,1) 
Jazz Dance XXII: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3320 AS-THEA 2(2,1) 
Jazz Dance XXIII: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3330 AS-THEA 2(2,1) 
Jazz Dance XXIV: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3340 AS-THEA 2(2,1) 
Jazz Dance XXV: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3350 AS-THEA 2(2,1) 
Jazz Dance XXVI: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3360 AS-THEA 2(2,1) 
Jazz Dance XXVII: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3370 AS-THEA 2(2,1) 
Jazz Dance XXVIII: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3380 AS-THEA 2(2,1) 
Jazz Dance XXIX: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.

DAA 3390 AS-THEA 2(2,1) 
Jazz Dance XXX: PR: Theatre major, Dance minor, or department consent. Advanced study of Jazz dance, using theory and practice of Jazz technique. May be repeated for credit.
DIG 4206C AS-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.

DIG 4323 AS-DIG 3(3,0)
Modeling for Visual Language: 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.

DIG 4324 AS-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.

DIG 4325C AS-DIG 4(3,3)
Look Modeling Workshop: PR: COT 3960 and (DIG 3362 or DIG 3355) and successful portfolio review, or C.I. Techniques, mechanics of designing, developing finished look emphasis on rendering, shading, texturing, and lighting.

DIG 4326C AS-DIG 4(3,3)
Geometrical Modeling Workshop: PR: COT 3960 and (DIG 3362 or DIG 3355) and successful portfolio review, or C.I. Techniques, mechanics of designing and manipulating geometrical representations artificial characters and their environments; introduction to procedural models.

DIG 4359C AS-DIG 4(3,3)
Artificial Environments and Effects Workshop: PR: DIG 3355 and successful portfolio review, or C.I. Techniques and mechanics of artificial environments, with emphasis on compositing, image processing, visual style, visual continuity.

DIG 4369C AS-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.

DIG 4451C AS-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.

DIG 4455C AS-DIG 3(3,0)
Interactive Performance II: PR: DIG 3450C or CI. Continuation of Interactive Performance I, with focus on the integration of actors, audience participation, technology, and story structure.

DIG 4486 AS-DIG 3(3,0)

DIG 4522L AS-DIG 1(0,3)
Digital Media Service II: PR: DIG 4035L 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 SU.

DIG 4523L AS-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 SU.

DIG 4524L AS-DIG 3(0,3)
Digital Media Project I: PR: DIG 3525 and a minimum grade of "B" (3.0) or better in DIG 3001. Multidisciplinary students work with faculty and industry mentors to design and implement a project involving virtual reality, video game production, computer animation, or interaction with the theme park industry.

DIG 4526C AS-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.

DIG 4640 AS-DIG 3(3,0)
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, to media and the Internet. Project-based.

DIG 4641 AS-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 electromechanical devices, and the use of software libraries for controlling testbed hardware, for entertainment and creative applications.

DIG 4645 AS-DIG 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.

DIG 4713C AS-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.

DIG 4715C AS-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.

DIG 4716L AS-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 aesthetic and scientific principles of user interface design. Project-oriented.

DIG 4770 AS-DIG 3(3,0)

DIG 4921C AS-DIG 3(2,2)
Media for e-Commerce I: PR: DIG 2000 and (COP 2500C or COP 3920C) 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.

DIG 4922 AS-DIG 3(3,0)
Media for E-Commerce II: PR: IDS 4685C and COP 3350 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.

DIG 4931 AS-DIG 3(3,0)

DIG 5627 AS-DIG 3(3,0)
Science & Technology of Dynamic Media: PR: Graduate status or senior standing or C.I. Interdisciplinary course in scientific, technical and creative issues in interactive media. Information algorithms, objects, models. Theories of computer graphics, sound, modeling, simulation, interfaces, artificial intelligence.

DSC 4013 HPA/CJ/LS 3(3,0)

EAB 3703 AS-PSYCH 4(3,2)
Principles of Behavior Modification: PR: EXP 3404. An examination of the control of behavior through applications of principles and theories of learning. Examples are drawn from clinical and social psychology and from child rearing. Lecture/Practicum.

EAB 3705C AS-PSYCH 4(3,2)
Behavior Modification - Part II: PR: EAB 3703, EXP 3404. Continued examination of the principles of behavior analysis and their application, as well as ethical issues related to the delivery of behavior analysis programs.

EAB 5765 AS-PSYCH 3(3,0)
Applied Behavior Analysis with Children and Youth: PR: EAB 5764 and (COP 3502C) and a minimum grade of "B" (3.0) or better in DIG 3001 or 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.
EAS 3530 ECS-MMAE 3(3,0)

EAS 3800C ECS-MMAE 3(2,3)

EAS 3810C ECS-MMAE 2(1,3)

EAS 4105 ECS-MMAE 3(3,0)

EAS 4134 ECS-MMAE 3(3,0)
High-Speed Aerodynamics: PR: EGN 3343, EML 3701, EAS 3800C. Continuation of EAS 3101. Normal and oblique shock waves, nozzless and wind tunnels, methods of analyzing compressible flow about airfoils, wings, and bodies. Viscous boundary layers and applications to the design process.

EAS 4200 ECS-MMAE 3(3,0)

EAS 4210 ECS-MMAE 3(3,0)

EAS 4300 ECS-MMAE 3(3,0)
Aerothermodynamics of Propulsion Systems: PR: EAS 4134 or EML 4703. Fundamental analysis and design considerations of propulsion systems. Turbojets, ramjets and rockets.

EAS 4400 ECS-MMAE 3(3,0)
Spacecraft Attitude Dynamics: PR: EML 4312C. Kinematics and dynamics of rigid and multibody spacecraft rotational motion. Attitude control with momentum exchange actuators and thrusters.

EAS 4505 ECS-MMAE 3(3,0)

EAS 4700C ECS-MMAE 3(1,6)
Aerospace Design I: PR: EAS 3810C. Application of the design process to the team solution of a state-of-the-art problem. Airplanes and space vehicles, systems and devices are considered. Materials & Supply fee: $15.00.

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. Materials & Supply fee: $45.00.

EAS 5123 ECS-MMAE 3(3,0)

EAS 5157 ECS-MMAE 3(3,0)

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, thermonics, solar energy, photovoltaics and magnetohydrodynamics. Analysis and systems design.

EAS 5315 ECS-MMAE 3(3,0)

EAS 5407 ECS-MMAE 3(3,0)
Mechatronic Systems: PR: EML 3804C or EAS 3404C. Discrete control techniques for aerospace mechatronic systems. Controller design, test and evaluation applications.

EAS 5535 ECS-MMAE 3(3,0)
Engineering Design for Aerospace Vehicles: PR: EAS 4700C, EAS 4710C, EML 4501C, EML 4502C, or equivalent. Applications of the design process to aerospace vehicles. A system approach will be emphasized. Techniques for optimizing interface requirements will be covered.

ECM 4504C ECE-EC 4(3,3)

ECM 5135 ECE-EC 3(3,0)

ECM 5741C ECE-EC 3(2,3)
Microcomputer-based Monitoring and Control Systems: PR: EEL 3432C, EEL 4767C or C.I. Machine language programming; software development aids; systems design; interfacing considerations.

ECO 2013 BA-ECON 3(3,0)
Principles of Macroeconomics: An introduction to macroeconomics, including an overview of the market economy, national income, employment, and price level determination, stabilization policies, and international economics.

Eco 2013H BA-ECON 3(3,0)
Honors Principles of Economics I: PR: Permission of Honors. Same as ECO 2013 with honors-level content.

Eco 2023 BA-ECON 3(3,0)
Principles of Microeconomics: The determination of prices in a market economy; their role in allocating consumer and producer goods and in distributing incomes, including attempts to improve market efficiency through public policy.

Eco 2023H BA-ECON 3(3,0)
Honors Principles of Microeconomics: PR: Permission of Honors. The determination of prices in a market economy; their role in allocating consumer and producer goods and in distributing incomes, including attempts to improve market efficiency through public policy. Honors content.

Eco 3101 BA-ECON 3(3,0)

Eco 3203 BA-ECON 3(3,0)

Eco 3223 BA-ECON 3(3,0)

Eco 3401 BA-ECON 3(3,0)

Eco 3401H BA-ECON 3(3,0)
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.

Eco 3402 BA-ECON 3(3,0)

Eco 3410 BA-ECON 3(3,0)
Mathematical Economics: PR: ECO 3401 or MAC 2233. Mathematical methods with particular focus on microeconomic foundations of individual decision-making.

Eco 3411 BA-ECON 3(3,0)

Eco 3411H BA-ECON 3(3,0)
Honors: Quantitative Business Tools II: PR: ECO 3401, permission of honors. Same as ECO 3411 with Honors level content.

Eco 3622 BA-ECON 3(3,0)

Eco 3703 BA-ECON 3(3,0)

Eco 3723 BA-ECON 3(3,0)
International Commercial Policy: PR: ECO 2013 and ECO 2023. Presents the fundamentals of international commercial policy, with special emphasis on U.S. trade policy since WW II.

Eco 4302 BA-ECON 3(3,0)
Economics of the Environment: PR: ECO 2013, ECO 2023, or C.I. Provide fundamental insights into the interdependence between energy use, environmental quality, and the economy at both the microeconomic and macroeconomic level.

Eco 4303 BA-ECON 3(3,0)
ECO 4412 BA-ECON 3(3,0)

ECO 4451 BA-ECON 3(3,0)

ECO 4504 BA-ECON 3(3,0)
Economics of the Public Sector: PR: ECO 2023. A study of fiscal institutions and decision-making, and how government budgetary policy (spending, taxing, borrowing, and debt management) affects the economy and its citizens.

ECO 4701 BA-ECON 3(3,0)

ECO 4941 BA-ECON 3(3,0)
Economics Internship: PR: Consent of department chair. Supervised economics-related work experience in a pre-approved sponsoring organization. See department for information/application. Graded S/U.

ECO 5005 BA-ECON 3(3,0)
Economic Concepts: PR: Acceptance into the graduate program. Introduction to micro and macro economic analysis.

ECO 5006 BA-ECON 1.5(1.5,0)

ECO 5414 BA-ECON 1.5(1,5,0)
Statistical Foundations: PR: Acceptance to Graduate Study. Statistical theory and problems relating to business and economics, including time series and correlation theory, index number theory and statistical inference.

ECO 5415 BA-ECON 3(3,0)
Statistics for Business and Economics: PR: Acceptance into the graduate program and MAC 2323. Statistical theory and problems relating to business and economics, including time series and correlation theory, index number theory and statistical inference.


ECP 3203 BA-ECON 3(3,0)
Contemporary Labor Economics: PR: ECO 2013 and ECO 2023. The analysis of labor problems and issues in a dynamic contemporary economy through the interaction of the four major institutions: households, firms, government, and unions.

ECP 3303 BA-ECON 3(3,0)

ECP 3433 BA-ECON 3(3,0)

ECP 4403 BA-ECON 3(3,0)
Business, Government, and Industrial Organizations: PR: ECO 2013 and ECO 2023. A study of the performance of industries representative of various types of market structure and practices, as well as the public policies affecting these industries.

ECP 4603 BA-ECON 3(3,0)
Urban and Regional Economics: PR: ECO 2013 and ECO 2023. Analysis of the location, organization, and problems of urban and regional economic activities.

ECP 4703 BA-ECON 3(3,0)
Managerial Economics: PR: Junior standing. MGT 2011, ECO 2013, ECO 2023 and ECO 3411. The uses of economic analysis in economic decision-making and business policy formulation.

ECS 4003 BA-ECON 3(3,0)

ECS 4013 BA-ECON 3(3,0)

ECS 4204 BA-ECON 3(3,0)

ECS 4210 BA-ECON 3(3,0)

ECS 4231 BA-ECON 3(3,0)
The Japanese Economy: PR: ECO 2013 or ECO 2023 or ECO 2013H. A study of the rapid economic transformation of the Japanese economy with a special focus on the role of human resource development.

ECS 4303 BA-ECON 3(3,0)
Economics of European Integration: PR: ECO 2013 and ECO 2023. Presents the development of the European Community, with emphasis on the characteristics of the Single European Act (EC ‘92).

ECS 4442H BA-ECON 3(3,0)
Honors Economic Development of Mexico and Central America: PR: Permission of Honors and ECO 2013 or ECO 2023. A study of the economies of Mexico and Central America under NAFTA.

EDE 3942 ED-TLP 3(3,0)
Internship I: PR: EDG 4323, RED 3012, MAE 2801, TSL 4080. Student teaching assignment in an elementary school under the supervision of a certified classroom teacher. Graded S/U.

EDE 4943 ED-TLP 3(3,0)
Internship II (Elementary): PR: EDE 3942. Student teaching in an elementary school under the supervision of a certified classroom teacher. Scheduled concurrent seminars.

EDE 4945 ED-TLP 3(3,0)

EDE 5245 ED-TLP 3(3,0)
Internship IV: PR: EDE 4945. Student teaching in a secondary school under the supervision of a certified classroom teacher. Graded S/U.

EDE 4466 ED-ERTL 3(3,0)
Classroom Assessment & Evaluation Techniques: PR: Completion of Internship I or C.I. Classroom measurement skills in designing traditional and alternative assessments, using results for student evaluation and instructor performance, and interpretation of standardized test results. Graded S/U.

EDE 4603 ED-ERTL 3(3,0)
Analysis of Critical Issues in Education: PR: EDF 4214 or C.I. Critical analysis of contemporary educational issues, including ethical, legal, cultural, and linguistic considerations which directly impact schooling in a democracy.

EDG 1005C ED-ERTL 2(1,1)
Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of
Education providing a foundation of leadership, scholarship, and service regarding disciplines in the college.

EDG 2701  ED-ES  3(3,0)  Teaching Diverse Populations: An introduction to cultural factors and their impact on education and life changes. Explores stereotyping, prejudice and changing classroom demographics. Includes directed field experience.

EDG 4223  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 adaptation of instruction for diverse student populations.

EDG 4941  ED-ES  1-8(0,1-8)  Directed Field Experience: PR: Approval of Professional Laboratory. Field experience in an appropriate educational setting under the direction of a supervising teacher and/or university supervisor.

EDG 4948  ED-ES  3(3,0)  Service Learning: PR: 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.

EDG 5745  ED-ES  3(3,0)  Teaching the Non-English Student: PR: C.I. Bilingual and non-linguistic instruction in curriculum areas in English as a second language.

EDG 5941  ED-ES  2-8(0,11)  Clinical Practice: PR: Admission to STEP II, III or IV. Clinical Internship in an appropriate educational setting under the direction of a university supervisor or peer teacher.

EDH 5306  ECS-MMAE  1(1)  Teaching Methods in Engineering: PR: graduate standing in an engineering discipline. This course will cover basic teaching pedagogy to help engineering students become better TA’s and help students deliver better technical presentations.

EDS 5356  ED-ERTL  3(2,1)  Supervision of Professional Laboratory Experiences: PR: C.I. Study of the undergraduate professional laboratory experiences program, with emphasis on the role and responsibilities of the Teacher Education Associate or Supervising Teacher.

EED 4011  ED-CFCS  4(4,0)  Curriculum and Program Adaptation, E.H.: Development of highly specialized curriculum and identification, evaluation, modification, and use of curriculum materials and programs for students with emotional handicaps.

EED 4243  ED-CFCS  3(3,0)  Teaching the Emotionally Handicapped: Instructional strategies with emphasis on motivational strategies, development, implementation and evaluation of the IEP, modification of regular education instructional practices, crisis intervention and prevention.

EED 4244  ED-HSW  2(2,0)  Instructional Strategies and Curriculum for Students with Emotional Handicaps: PR: EEX 2010. Instructional strategies and specialized curriculum for teaching students with emotional handicaps with emphasis on instructional techniques and use of curriculum materials and programs.

EEL 3004  ECS-ECE  3(3,0)  Electrical Networks: PR: PHY 2049, MAP 2302. Analysis and design of linear circuits, transients, ac analysis, power calculations, three-phase circuits, Laplace transform. Materials & Supply fee: $15.00

EEL 3041  ECS-ECE  3(3,0)  Circuit Analysis: PR: PHY 2053C. Study of electrical networks. Circuit analysis techniques are presented, including DC and steady state analysis. Power calculations, power distribution and dissipation are covered with examples relating to cables, connections, and buses. Not open to EE and CpE majors.


EEL 3306  ECS-ECE  3(3,0)  Semiconductor Devices I: PR: EEL 3004. Electronic devices including p-n junctions, bipolar transistors, field effect transistors and device models.

EEL 3307C  ECS-ECE  4(3,3)  Electronics I: PR: EEL 3123C, EEL 3306. Electronic devices, analog electronic circuits, modular analysis and design, and frequency effects. Materials & Supply fee: $15.00

EEL 3342C  ECS-ECE  3(2,3)  Introduction to Digital Circuits and Systems: PR: PHY 2049 or C.I. Switching theory and devices. Combinational and sequential logic. Logic design using standard components such as ROM, arithmetic units, multiplexers, registers, and counters. Materials & Supply fee: $15.00
UCF Courses and Descriptions

EEL 3470  ECS-ECE  3(3,0)
Electromagnetic Fields:  PR:  EEL 3004. Electric and
magnet fields and electromagnetic waves.

EEL 3520  ECS-ECE  3(3,0)
Information Theory:  PR:  MAC 2417. Fundamentals of
information theory and communication systems. Topics
include; the definition of information, band width and fre-
quency spectrum, systems design, filters, modulations,
demodulators, antennas, and wireless communications.
Not open to EE or CE majors.

EEL 3552C  ECS-ECE  4(3,3)
Analog and Digital Communication Fundamentals:  PR:
EEL 3123C. Fundamentals of AM and FM, Baseband
pulse and digital signaling, Bandpass signaling, digital
modulation and detection, and error probability of simple
digital systems. Materials & Supply fee: $15.00

EEL 3657  ECS-ECE  3(3,0)
Linear Control Systems:  PR:  EEL 3123C. Control theory,
transfer function modeling, Nyquist criteria, root locus,
Bode plots, and Design of lead and lag compensation.

EEL 3801C  ECS-ECE  3(2,3)
Introduction to Computer Engineering:  PR:  EGN 3211
or equivalent. CR:  EEL 3342C. Introduction to the field
of computer engineering. Engineering applications of
advanced C-language concepts. C++ topics and applica-
tions. Basic computer organization, Assembly language
programming Materials & Supply fee: $10.00

EEL 4130  ECS-ECE  3(3,0)
Fundamentals of Continuous Simulation:  PR:  MAP
2302. Fundamental concepts of continuous system simu-
lation. Numerical integration, math modeling, simulation
software. May be repeated for credit.

EEL 4140C  ECS-ECE  4(3,3)
Analog Filter Design:  PR:  EEL 3123C. Passive and
active analog filter design. Materials & Supply fee: $15.00

EEL 4205  ECS-ECE  3(3,0)
Electric Machinery:  PR:  EEL 3004. Fundamentals of DC
and AC electric machines.

EEL 4216  ECS-ECE  3(3,0)
3004 or C.I. Three-phase power representation and analy-
sis, transformers, per unit system, symmetrical compo-
nents, faults, and transmission lines.

EEL 4309C  ECS-ECE  4(3,3)
Electronics II:  PR:  EEL 3307C, EEL 3342C. Ideal Op-
Amps and applications. Introduction to Logic Circuits;
Bipolar, MOS and CMOS families; Flipflops and memory
cells, comparators and timing circuits: A/D and D/A con-
verters. Materials & Supply fee: $15.00

EEL 4314  ECS-ECE  3(3,0)
Device Electronics for Integrated Circuits:  PR:  EEL
3306. P.N. Junctions, Bipolar Transistor Analysis, Metal
Semiconductor contacts, MOS Systems MOSFET
Analysis and Limitations.

EEL 4436C  ECS-ECE  4(3,3)
Microwave Engineering:  PR:  EEL 3470. Transmission
line theory, Smith charts, S-parameters, simple impedance
matching circuits, wave guides, resonators, basic
microwave measurements. May be repeated for credit.
Materials & Supply fee: $15.00

EEL 4440  ECS-ECE  3(3,0)
Optical Engineering:  PR:  EEL 3470, EEL 3552C or C.L.
Lens systems, aberrations, sources, radome, detectors,
physical optics, interferometric devices, applications to
engineering design problems.

EEL 4512C  ECS-ECE  4(3,3)
Telemetry and Space Computer Systems: PR: EEL
3552C and EEL 3801C, EEL 3857, EEL 3307C, EEL
3470. Telemetry and computer sub-systems are discussed as
they are implemented in the space-launch system "inertial
upper stages"
electronics, power semiconductor devices, inverter topologies, switch-mode and resonant dc-to-dc converters, cyclo-converters, applications.

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. Materials & Supply fee: $30.00

EEL 5352 ECS-ECE 3(3,0)

EEL 5353 ECS-ECE 3(3,0)
Semiconductor Device Modeling and Simulation: PR: EEL 3307C. Large signal and small signal model development for semiconductor diodes, BJTs, and MOSFETs. Parameter extraction, numerical algorithm, and SPICE simulation are included.

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.

EEL 5370 ECS-ECE 3(3,0)

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.

EEL 5390 ECS-ECE 3(3,0)
Full-Custom VLSI Design: PR: EEL 3342C, EEL 3307C. CMOS VLSI design methodologies; full custom chip design, industrial CAD tools; simulation; verification.

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.

EEL 5434 ECS-ECE 3(3,0)
Microwave Circuits and Devices: PR: EEL 4498C or EEL 5556C. Planar transmission lines; passive microwave circuits; active circuit design using Gunn, IMPATT, FETS, RTDs, etc.; microwave integrated circuits.

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. Materials & Supply fee: $5.00

EEL 5513 ECS-ECE 3(3,0)

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.

EEL 5542 ECS-ECE 3(3,0)

EEL 5547 ECS-ECE 3(3,0)

EEL 5555C ECS-ECE 3(2,2)
RF and Microwave Communications: PR: EEL 3552C and C.I. Microwave active circuits microstrip amplifier, oscillator, and mixer design and fabrication. Receiver design, noise, and in-band signal analysis with network and spectrum analyzers.

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.

EEL 5630 ECS-ECE 3(3,0)

EEL 5704 ECS-ECE 3(3,0)
Computer Aided Logical Design: PR: EEL 4767C. Design, analysis and synthesis of sequential logic circuits and systems. Data path and controller design using a hardware description language.

EEL 5708 ECS-ECE 3(3,0)

EEL 5722C ECS-ECE 3(3,1)
Field-Programmable Gate Array (FPGA) Design: PR: EEL 3342C or C.I. FPGA architectures, design flow, applications: logic synthesis; technology mapping; placement; routing; multi-FPGA systems; multi-context; reconfigurable computing; evolvable hardware.

EEL 5762 ECS-ECE 3(3,0)

EEL 5771C ECS-ECE 3(2,3)
Engineering Applications of Computer Graphics: PR: EEL 4342C or C.I. Computer graphics in engineering applications. Laboratory assignments. Materials & Supply fee: $5.00

EEL 5780 ECS-ECE 3(3,0)
Wireless Networks: PR: EEL 4761 or C.I. The wireless networking topics include: cellular networks, multiple access protocols, channel assignment and resource allocation, mobility and location management, handoffs, routing, authentication, call admission control and QoS provisioning, network layer issues, wireless data networking (WAP, GSM, GPRS, CDMA, WCDMA).

EEL 5820 ECS-ECE 3(3,0)
Image Processing: PR: MAP 2302, EEL 4750, EEL 4759 or C.I. Two-dimensional signal processing techniques; pictorial image representation; spatial filtering; image enhancement and encoding; segmentation and feature extraction; introduction to image understanding techniques.

EEL 5825 ECS-ECE 3(3,0)
Pattern Recognition: PR: MAP 2302, EEL 4820. Graph-theoretic and syntactic methods of pattern analysis. Decision functions; optimum decision criteria; training algorithms; feature extraction; unsupervised learning; data reduction and potential functions.

EEL 5880 ECS-ECE 3(3,0)
Software Requirements Engineering: PR: Graduate standing or C.I. Excellent oral and written communication skills. Excellent problem solving skills. In-depth study of software requirements engineering within a process centered framework. Methods for requirements elicitation, analysis, description, and validation. Formal and informal specification.

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.

EEL 5881 ECS-ECE 3(3,0)
Software Engineering I: PR: EEL 4840, EEL 4851C or C.I. Design, implementation, and testing of computer software for Engineering applications.

EEL 5891 ECS-ECE 3(3,0)
Continuous System Simulation I: PR: EEL 3567 or C.I. Use of state-space techniques, numerical integration, and CSSL programs. Laboratory assignments.

EES 3004 ECS-ECE 3(3,0)
Environmental systems: PR: One semester of college level science, pre chemistry or Biology. A technical literacy course in environmental systems for wastewater, drinking water, groundwater, soil, and air treatment for non-engineering majors.

EES 4111C ECS-ECE 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. Materials & Supply fee: $45.00

EES 4202C ECS-ECE 3(2,3)
Chemical Process Control: PR: ENV 3001. Engineering design, measurements, and analysis of chemical systems in environmental engineering to control treatment processes such as softening, coagulation, destroion of bacteria, neutralization, and others. Materials & Supply fee: $45.00

EES 5605 ECS-ECE 3(3,0)
Quality Control: PR: C.I. Community noise evaluation and control, legislative standards, instrumentation and measurement, abatement methods, and noise modeling.

EET 2025C ECS-ENT 4(3,2)
Electronic Circuits: PR: EET 1015C or EET 3065C. Frequency domain and steady state analysis of electric circuits: RCL circuits, timed circuits, resonance and “Q”; filters, magnetically coupled circuits, transformers, 3-phase circuits, power relationships. Materials & Supply fee: $10.00

EET 3085C ECS-ENT 4(3,2)
Electricity and Electronics: PR: MAC 1105 or equivalent. Basic theorems and circuit analysis techniques. Instruments and measurements. Introduction to integrated circuits. Materials & Supply fee: $10.00

EET 3143C ECS-ENT 4(3,2)
EET 3716  ECS-ENT  3(3,0)  
Network Analysis: PR: DC/AC circuits and Calculus I.  
Transient analysis of first and second-order circuits, circuit analysis using LaPlace Transforms.  
Transform function, frequency response analysis, and Bode plots.  May be repeated for credit.  
EET 4158C  ECS-ENT  3(2,2)  
Linear Integrated Circuits: PR: EET 3716, or Consent of Coordinator.  
Applications of operational amplifiers, comparators, phase-locked loops, timers, regulators, other integrated circuits.  
Includes amplifiers, active filters, oscillators, differentiators and integrators.  Materials & Supply fee: $10.00  
EET 4329C  ECS-ENT  4(3,2)  
Communications Systems: PR: EET 4158C.  
Electronics Devices Principles and interrelationships of communication system components and circuits.  
Signals, noise, modulation, demodulation, bandwidth requirements.  
Transmitters and receivers.  Materials & Supply fee: $10.00  
EET 4339C  ECS-ENT  3(2,2)  
Antennas and Propagation: PR: EET 4329C.  
Transmission lines, impedance matching, use of Smith Chart.  
Antenna principles.  Beamwidth, gain, directivity, effects of height, path-loss.  
System design.  
EET 4359C  ECS-ENT  4(3,2)  
Theory and application of techniques utilized in digital data transmission and reception  
EET 4389C  ECS-ENT  3(2,2)  
Satellite Communication Systems: PR: EET 4329C.  
System analysis and design, orbits, launching methods.  
Baseband signals and modulation.  
Link design, synchronization techniques.  
Interference, noise, access.  
Antennas, spectrum utilization.  
EET 4548  ECS-ENT  3(3,0)  
Power Systems: PR: EET 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.  
EET 4732C  ECS-ENT  3(3,2)  
Feedback Control Systems: PR: EET 3716, PHY 2053C.  
Modeling and analysis of networks and control systems.  
Stability and compensation considerations, using root locus, Nichols chart and Bode plots.  
Simulation techniques, system components.  Materials & Supply fee: $10.00  
EET 4915C  ECS-ENT  3(1,4)  
Senior Design Project: PR: Electronics Engineering Technology senior entering anticipated graduation semesters or C.I.  
Individual or group project involving project definition, planning, development, test and evaluation.  
Progress reports, final oral presentation and final written report required.  
EEX 2010  ED-CFCs  3(3,0)  
Introduction to Special Education: Orientation to the education of children and adolescents with special needs in the schools.  
The course includes characteristics, trends, mainstreaming, and other issues.  
EEX 2310  ED-CFCs  3(3,0)  
Exceptional Populations in School and Society:  
Characteristics of exceptionalities in school and society to increase student awareness and comfort levels with individuals with exceptionalities.  
EEX 3102  ED-CFCs  3(3,0)  
Language Development and Communication Disorders: PR: Junior standing.  
Interdisciplinary approach to language development, identification and remediation of communication and language disorders.  
EEX 3221  ED-CFCs  3(3,0)  
Assessment of Exceptional Students: Formal and informal assessment techniques for screening, placement, program planning, program evaluation, and monitoring of progress of exceptional students.  
EEX 3241  ED-CFCs  3(3,0)  
Teaching strategies, instructional materials, and monitoring techniques for children and adolescents with special needs.  
Must be taken before Internship I.  
EEX 3243  ED-CFCs  3(3,1)  
Techniques for Exceptional Adolescents-Adults: CR: EEX 3241.  
A study of strategies, basic and functional content, career and vocational education, and transition planning for adolescents and adults with special needs.  
EEX 3450  ED-CFCs  3(3,0)  
Young Children With Special Needs: Provides an overview of the unique field of early childhood special education, its mission, and approaches to helping young children and their families.  
EEX 3754  ED-CFCs  3(3,0)  
Parents as Educators: Develop parental awareness of their role in child development and school success.  
Attention given to social context of parenting and parents as advocates for children.  
EEX 3864  ED-CFCs  6(0,16)  
Internship I: PR: EDG 4323, RED 3012, EEX 2010, EEX 3241.  
Satisfactory completion of the portfolio.  
Internship assignment 2 days a week under a certified special education teacher.  
Half in elementary, half in secondary.  Graded SU.  
EEX 3940  ED-CFCs  3(3,0)  
Student teaching exceptional education in secondary school setting under the supervision of a certified classroom teacher.  
EEX 4003  ED-CFCs  3(3,0)  
Teaching Exceptional Students: PR: EDG 4323.  
Development and practice of effective teaching and management strategies for elementary regular classroom teachers to use in working with mild disabilities.  
EEX 4054  ED-CFCs  2(2,0)  
Theories and historical foundations for students with specific learning, physical, cognitive, and emotional disabilities.  
EEX 4066  ED-CFCs  3(3,0)  
Development of highly specialized techniques and curricular materials to be used with students with emotional, learning, cognitive and physical disabilities.  
EEX 4601  ED-CFCs  3(3,0)  
Introduction to Behavior Management: Study of management techniques based on applied behavioral analysis principles for modifying inappropriate behaviors and maintaining appropriate behaviors of exceptional students.  
EEX 4751  ED-CFCs  3(3,0)  
Parent Involvement in Education: This course prepares students to successfully interact with and involve parents in their child’s education.  
EEX 4753  ED-CFCs  3(3,0)  
Parent/Professional Collaboration: The special education teacher's role in working with families, regular educators, and other professionals in a collaborative relationship.  
EEX 4943  ED-CFCs  12(0,35)  
Internship II: PR: Completion of specialization.  
Satisfactory completion of the portfolio.  
Full day student teaching under a certified special education teacher in an elementary or secondary school.  May be repeated for credit.  Graded SU.  
EEX 5051  ED-CFCs  3(3,0)  
Exceptional Children in the Schools: PR: Senior standing or C.I.  
Characteristics, definitions, educational problems, and appropriate educational programs for the exceptional children in schools.  
EEX 5702  ED-CFCs  3(3,0)  
Planning Curriculum for Pre-kindergarten Children with Disabilities: Focus on curriculum planning, developmentally appropriate practices and implementation of individualized instruction for pre-kindergarten children with disabilities.  
EEX 5750  ED-CFCs  3(3,0)  
Communication with Parents and Agencies: Presentation of methods of interacting with community agencies, supporting and collaborating with families, developing a case management system, and facilitating program transition.  
EGM 3601  ECS-MMAE  3(3,0)  
Concepts of stress, strain, deflection, axial force, torsion, bending; combined stress, Mohr’s circle, failure theories; design concepts, application to machines and vehicles.  
EGN 1006C  ECS-MMAE  1(1,2)  
Introduction to the Engineering Profession: PR: New students status or C.I.  
Overview of academic and professional requirements in various engineering disciplines.  
Materials & Supply fee: $5.00  
EGN 1007C  ECS-ECS  1(1,2)  
Introduction to the use of computer and applications software in solving engineering problems.  
Introduction to the concepts of engineering design through the use of teams: 
engineering communication; engineering professionalism and ethics.  Materials & Supply 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.  
EGN 1111C  ECS-MMAE  2(1.3)  
Spatial visualization, sketching and graphical presentation as a form of computerized engineering communication.  
Engineering drawing, descriptive geometry and graphical solution techniques using computer software.  
Materials & Supply fee: $10.00  
EGN 1380  ECS-MMAE  3(3,0)  
Materials in Today’s World: A survey of the properties, manufacture, and uses of metals, ceramics, and polymers in today’s world with emphasis on modern developments and new materials.  
EGN 2815C  ECS-AFROTC  3(2,3)  
Space Science and Technology: Past, Present, and Future: Introduction to space technology, past, present and future.  
Applications to modern life  
EGN 2920C  ECS-EMS  2(1,1)  
LEAD Colloquium: PR: C.I.  
LEAD Scholars Program, Must have completed at least two of the following with a grade of B or better, IDS 1040C, GEB 1091C, EGN 1036C,
EDG 1005c or HSC 1931c. Provides experiential leadership experience in an appropriate leadership setting under the direction of a university supervisor with the LEAD Scholars Program. May be repeated for credit.

EGN 3211 ECS-ECE 3(3,0) Engineering Analysis and Computation: PR: MAC 2311. Engineering analysis and computation with structured constructs. Subscripted variables, subprograms, input/output. Batch processing and time sharing. Engineering applications will be emphasized.

EGN 3310 ECS-CBE 3(3,0) Engineering Analysis-Stats: PR: PHY 2048; CR: MAC 2312. Fundamental concepts of mechanics, including resultants of force systems, free-body diagrams, equilibri-um of rigid bodies, and analyses of structures.

EGN 3311 ECS-CBE 3(3,0) Engineering Analysis-Statics (Honors): PR: Permission of Honors and PHY 2048; CR: MAC 2312 or MAC 2282. (Honors section for EGN 3310) Advanced treatment of material and additional topics. More challenging assignments. Project work. May be repeated for credit.

EGN 3321 ECS-MMAE 3(3,0) Engineering Analysis-Dynamics: PR: EGN 3310; CR: MAC 2313. Kinematics and kinematics of particles and rigid bodies; mass and acceleration, work and energy, impulse and momentum.

EGN 3321H ECS-CBE 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.


EGN 3365 ECS-MMAE 3(3,0) Structure and Properties of Materials: PR: CHS 1440 and MAC 2312. Atomic structure and bonding, crystal structure and imperfections, solidification, phase transformations, phase diagrams, heat treatment, mechanical and electrical properties, materials characterization techniques.

EGN 3373 ECS-ECE 3(3,0) Principles of Electrical Engineering: PR: PHY 2049; CR: MAP 2302. Fundamentals of electrical circuits and analysis; fundamentals of electronics and AC power systems, transformers, electromechanics, and rotating machines.


EGN 3420 ECS-ECE 3(3,0) Engineering Analysis: PR: High-level computer language; MAC 2312. Engineering applications of numerical methods including curve fitting, matrix operations, root finding, interpolating, integration, and plotting.


EGN 3704 ECS-CBE 3(2,0) Engineering and the Environment: PR: CHS 1440 and MAC 2312. Process engineering for air, energy, water, and land environment and the role of engineering in control of these environments.

EGN 3843 ECS-ECS 3(3,0) Systems Modeling: PR: CGS 1060C or equivalent. Representation of man/machine systems through analytic and computer-based models. Case studies in the analysis and improvement of systems in industry, education, and government.

EGN 4412C ECS-MMAE 3(1,5) Interdisciplinary Design I: PR: EGN 4310 or EGN 3343 or EGN 3358 or C.I. Introduction to the design process for interdisciplinary, students to solve state-of-the-art engineering problems by system analysis, design, integration, manufacture and testing methods.

EGN 4413C ECS-MMAE 3(1,5) Interdisciplinary Design II: PR: EGN 4412C. Continuation of Interdisciplinary Design I may be repeated for credit.

EGN 4624 ECS-IEMS 3(3,0) Engineering Administration: PR: Senior standing. Engineering organization and administration; delegation of authority and responsibility; effective use of resources; project management; R and D planning; ethics in professional practice.

EGN 4706C ECS-MMAE 3(2,4) Small Satellite Payloads and Integration: PR: EML 3500 or EML 3657 or EML 3550C or EML 3801C; ENS 4312; ENS 3404C; Comp Sci: COT 3960, COMP 3503C; Mech: EML 3500, EML 3501, EML 3303C, CR: ENS 4312C, ENS 3804C. Application of the design process for interdisciplinary students to solve state-of-the-art engineering problems by system analysis, design, integration, manufacture and testing methods.

EGN 4707C ECS-ECS 3(2,4) Processing Space-Launched Systems: PR: For ECE: EEL 3550C or EEL 4767C; For IEMS: EIS 4523C; For MCE: EML 3800C. Assembly and test techniques for preparing and checkout of the space-launched system “Inertial Upper Stage.” May be repeated for credit.

EGN 4824 ECS-ENT 3(3,0) Energy and Society: Investigation of available energy forms; energy resources versus requirements in an increasingly complex technological society; possible solutions and future predictions.

EGN 4830 ECS-ENT 3(3,0) Telecommunications: Telecommunications and its role in contemporary local, national, and international society.

EGN 4931H ECS-ECS 3(3,0) Engineering Honors Seminar: PR: Permission of Honors and Senior standing and C.I. Introduces a select group of students in engineering or other fields of science to the methodology commonly employed in research. Students will carry out independent research which will prepare them for graduate study.

EGN 4933 ECS-ECS 1(1,0) Professional Engineering Practice: PR: Senior standing or C.I. Seminars dealing with current and future global issues within the engineering profession.

EGN 5035 ECS-ECS 3(3,0) Topics in Technological Development: PR: C.I. Selected topics in the technological development of west ern civilization including the weight-driven clock, steam engine, electric light, etc.

EGN 5720 ECS-IEMS 3(2,3) Internal Combustion Engine Analysis and Optimization: PR: EGN 3343 or EGN 3358 or C.I. Internal combustion engine operating principles. Topics covered include engine design and operating parameters, combustion, thermodynamics, induction flow, and basic mathematical models. Materials & Supply fee: $45.00

EGN 5840 ECS-ECS 3(3,0) Small Rocket Applications for Teachers: PR: Admission to Martin Marietta/UCF Academy. Earth and space environments, rocket propulsion, meteorological and environmental measurements, payload launch procedures, orbits and trajectories, safety, model rocket experiments, field trips, student science experiments.

EGN 5855C ECS-IEMS 3(2,2) Metrology: PR: EIN 4391C or C.I. Advanced topics in inspection and measurement with applications in engineering and manufacturing.

EGN 5858C ECS-IEMS 3(2,1) Prototyping and Product Realization: PR: Basic knowledge and experience in CAD/CAM technology or C.I. Product design and development cycle including design for functionality and manufacturability. Fundamentals, applications and practice of rapid prototyping and reverse engineering technologies. Materials & Supply fee: $45.00

EIN 3304 ECS-ECS 2(2,0) Introduction to Industrial Engineering and Management Systems: Issues important to the operation of an industrial or service facility.


EIN 3354 ECS-IEMS 3(3,0) Principles of Cost Engineering: PR: EGN 3613. This course is to provide engineers from all disciplines the background for the cost estimation of engineering systems throughout the product life cycle.

EIN 4116C ECS-IEMS 3(2,2) Systems Analysis and Design: PR: EIN 4364C. Systems analysis methodology, system requirements, specifications, system design methodology and decision support. Consulting skills and client interactions. Initiation of senior design projects. Materials & Supply fee: $20.00

EIN 4118C 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. Materials & Supply fee: $20.00

EIN 4214 ECS-IEMS 3(3,0) Safety Engineering and Administration: Analysis of
accidents in the industrial operating environment. Application of fault trees, OSHA requirements. Consideration of accident costs and organizational aspects of accident prevention.

EIN 4243C  ECS-IEMS  3(2,2)  
Human Engineering: PR: EIN 3314C; Senior standing. Man-machine systems; design and conduct of human engineering studies. Materials & Supply fee: $20.00

EIN 4305C  ECS-IEMS  3(2,2)  
Industrial Engineering Applications in The Service Industries: PR: EIN 3314C, ESI 4312, ESI 4234 or CI. Application of industrial engineering principles to improve the quality and productivity of service industries such as restaurants, banks, hotels, health care, etc.

EIN 4333C  ECS-IEMS  3(2,3)  
Industrial Control Systems: PR: ESI 4312. Decision rules in industrial environment including Forecasting, Production Planning, Scheduling, Inventory Control, and Project Monitoring. Laboratory assignments. Materials & Supply fee: $20.00

EIN 4364C  ECS-IEMS  3(2,2)  
Industrial Facilities Planning and Design: PR: EIN 3314C, EIN 3354, EIN 4391C. CR:EIN 4333C. Comprehensive design of industrial production systems, including interrelationships of plant location, process design, and materials handling. Laboratory assignments. Materials & Supply fee: $20.00

EIN 4391C  ECS-IEMS  3(2,2)  
Manufacturing Engineering: PR: EGN 3365. Introduction to manufacturing engineering, with emphasis on current and emerging technologies in metalworking and electronics. Materials & Supply fee: $20.00

EIN 4400  ECS-IEMS  3(3,0)  
Principles of Concurrent Engineering: PR: EGN 3633 or C.I. Elements of concurrent engineering and its application. Topics include quality function deployment and design for manufacturing and assembly.

EIN 4411C  ECS-IEMS  3(2,2)  
Computer-Aided-Manufacturing: PR: EIN 4391C. Computer-Aided-Manufacturing (CAM) including computer numerical control (CNC), robotics, parts classification (GT) and manufacturing resource planning (MRP). Materials & Supply fee: $45.00

EIN 4891C  ECS-IEMS  3(2,3)  
Industrial Engineering Senior Design Project: PR: EIN 4156C. Senior standing. Capstone design class; application of IEMS techniques to real-world design applications. Materials & Supply fee: $15.00

EIN 5108  ECS-IEMS  3(3,0)  
The Environment of Technical Organizations: PR: Graduate status or C.I; EGN 4624 recommended. Presentation and investigation into the principles required to transform technologists into managers focusing on engineering, scientists, and other professionals providing services in technically-oriented organizations.

EIN 5117  ECS-IEMS  3(3,0)  
Management Information Systems I: PR: C.I. The design and implementation of computer-based Management Information Systems. Consideration is given to the organizational, managerial, and economic aspects of MIS.

EIN 5140  ECS-IEMS  3(3,0)  
Project Engineering: PR: Graduate standing or C.I. Role of engineer in project management with emphasis on project life cycle, quantitative and qualitative methods of cost, schedule, and performance control.

EIN 5248C  ECS-IEMS  3(2,2)  
Ergonomics: PR: C.I. Applications of anthropometry, functional anatomy, mechanics, and physiology of musculoskeletal system concepts in the engineering design of industrial tools, equipment, and workstations. Materials & Supply fee: $20.00

EIN 5251  ECS-IEMS  3(3,0)  
Human-Computer Interaction: Usability Evaluation: Usability paradigms/principles: cognitive walkthroughs; heuristic; review-based, model-based, empirical and story-board evaluation; techniques; query techniques; laboratory techniques; and field study approaches.

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.

EIN 5317  ECS-IEMS  3(3,0)  
Training System Design: PR: seniors, post bac or graduate standing or CI. How human performance deficiencies should be addressed from a systems design point of view. Manpower, personnel, and training considerations will be examined.

EIN 5356  ECS-IEMS  3(3,0)  
Cost Engineering: Cost estimation and control of engineering systems throughout the product life cycle.

EIN 5368C  ECS-IEMS  3(2,2)  

EIN 5381  ECS-IEMS  3(3,0)  
Engineering Logistics: Study of the logistics life cycle involving planning, analysis and design, testing, production, distribution, and support.

EIN 5388  ECS-IEMS  3(3,0)  
Forecasting: PR: ESI 5219. Industrial applications of forecasting methods with emphasis on microcomputer-based packages.

EIN 5392C  ECS-IEMS  3(2,2)  
Manufacturing Systems Engineering: PR: EIN 4391C or C.I. The integration of manufacturing technologies and information processing into an information system for controlling the manufacturing enterprise. Materials & Supply fee: $20.00

EIN 5415C  ECS-IEMS  3(2,2)  
Tool Engineering and Manufacturing Analysis: PR: EIN 4411C. Tool materials and design, tolerance technology, theory of metal cutting, and machineability.

EIN 5602C  ECS-IEMS  3(2,2)  

EIN 5607C  ECS-IEMS  3(2,2)  
Computer Control of Manufacturing Systems: PR: EIN 4391C, and EIN 4411C or EMI 4533C, or C.I. Automated systems for manufacturing, numerical control (NC) machines, NC programming, robot control and programming, machine and system control. Materials & Supply 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.

ELD 4011  ED-CFCS  3(3,0)  
Intro to Specific Learning Disabilities: Nature and needs of students with learning disabilities to include history, theories, characteristics, definitions, assessments, issues, and application of effective teaching practices.

ELD 4242  ED-CFCS  3(3,0)  
Program Planning for Specific Learning Disabilities: PR: Senior standing. Development of highly specialized techniques, curriculum materials, to be used with students with special learning disabilities.

ELD 4320  ED-CFCS  4(4,0)  

EMA 1002  ECS-MMAE  3(3,0)  
Materials in Today's World: A survey of the properties, manufacture, and uses of metals, ceramics, and polymers in today's world with emphasis on modern developments and new materials.

EMA 3000  ECS-MMAE  3(3,0)  

EMA 3012C  ECS-MMAE  3(2,2)  
Experimental Techniques in Mechanics and Materials: PR: EGN 3365. Materials characterization (optical and scanning electron microscopy, x-ray diffraction), heat treatment, mechanical testing (hardness, tensile, impact, etc.) Materials & Supply fee: $45.00

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.

EMA 3706  ECS-MMAE  3(3,0)  
Structure and Properties of Aerospace Materials: PR: CHS 1440 or CHM 2045C and MAC 2282 or MAC 2312. Atomic structure, bonding, crystal structures, solidification, phase transformations, heat treatment, mechanical behavior, specific aerospace materials, materials design

EMA 4102  ECS-MMAE  3(3,0)  

EMA 4103  EEC-ENT  3(3,0)  
Space Environment Technology: PR: MAC 2258, PHY 2023C. The space environment and how it affects manufacturing of space elements to withstand the harsh space environment.

EMA 4223  ECS-MMAE  3(3,0)  

EMA 4413  ECS-MMAE  3(3,0)  
EMI 4501 ECS-MMAE 3(2,2) Scanning Electron Microscopy: PR: EGN 3365 or C.I.A review of electron optics, beam/specimen interactions, image formation, x-ray analysis, specimen preparation, microelectronic applications, and crystallography in the SEM.

EMI 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.

EMI 4506 ECS-MMAE 3(3,0) Emerging Materials: PR: EGN 3365, or EMA 3706. Structure, properties and processing of modern emerging materials.


EMI 4701C ECS-MMAE 3(2,4) Materials Performance in Space Applications: PR: EGN 3365. Laboratory failure analysis of materials within space-related environments.

EMI 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.


EMI 5106 ECS-MMAE 3(3,0) Metallurgical Thermodynamics: PR: EGN 3365. Laws of thermodynamics, phase equilibrium, reactions between condensed and gaseous phases, reaction equilibria in condensed solution and phase diagrams.

EMI 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 spectroscopics utilizing electron, ion and photon probes.

EMI 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.

EMI 5317 ECS-MMAE 3(3,0) Materials Kinetics: PR: C.I. Mass and thermal transport, phase transformations and Arhenius rate processes.


EMI 5504 ECS-MMAE 3(2,2) Modern Characterization of Materials: PR: EMA 5104 or C.I. Techniques and operation of instrumentation (light, scanning, transmission, and auger microscopy) for the characterization of structure, defects, composition, and surfaces.
Components, with emphasis on steam plants utilizing both mechanical power systems and control: Design for mechanical applications Materials & Supply fee: $15.00

EML 4005 ECS-MMAE 3(3,0) 
Design in Marine and Engineering: PR: EGN 3340 and EGM 3601. Design for function and invention, in both engineering and nature: economy, form, beauty, energy, mechanism, structure, evolution in nature.

EML 4142 ECS-MMAE 3(3,0) 

EML 4220 ECS-MMAE 3(3,0) 

EML 4260 ECS-MMAE 3(3,0) 
Dynamics of Machinery: PR: EML 3262C and EML 4220. Critical speeds and response of flexible rotor systems, whirl, gyroscopic effects; balancing of rotating and reciprocating masses; cam dynamics.

EML 4264 ECS-MMAE 3(3,0) 
Vehicle Dynamics: PR: EML 3262C and EML 4220. Basic mechanics governing vehicle dynamics, performance and handling; acceleration, braking, ride, cornering, suspension, steering, rollover.

EML 4293 ECS-MMAE 3(3,0) 
Essentials of Miniature Engineering Systems: PR: Graduate status or C.I. Engineering of miniature mechanical, thermal, energy, and electrical systems, including advantages, microfabrication methods, and future trends.

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. Materials & Supply fee: $45.00

EML 4312C ECS-MMAE 3(2,3) 
Feedback Control: PR: EML 3321, MAP 2302, EGM 3373 and EML 4220 or EAS 4210. Mathematical modeling of dynamic systems: transient and steady state response; Root Locus and z-transform methods; discrete systems analysis; controller design.

EML 4411 ECS-MMAE 3(3,0) 
Mechanical Power Systems: PR: EML 3101. Analysis and design of large power generating systems and components, with emphasis on steam plants utilizing both chemical and nuclear fuels.

EML 4501C ECS-MMAE 3(1,6) 
Engineering Design I: PR: EML 3500, EML 3701 and EML 3302C. 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. Materials & Supply fee: $15.00

EML 4502C ECS-MMAE 3(3,0) 
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. Materials & Supply fee: $45.00

EML 4535C ECS-MMAE 3(2,3) 
CAD/CAM: PR: EGN 3343, EGN 3034, and EGM 3601; CR EAS 4220 or EML 3500. CAD/CAM/FFM computational technology. Basic concepts. Concurrent engineering approach to mechanical, thermal, and aerospace systems design and analysis. Use of in-house software. Materials & Supply fee: $15.00

EML 4600 ECS-MMAE 3(3,0) 

EML 4703 ECS-MMAE 3(3,0) 

EML 5025C ECS-MMAE 3(2,2) 
Engineering Design Practice: PR: C.I. The course is designed to familiarize students with basic CAD/CAM solid modeling techniques in a project-oriented environment. Students will construct part models, drawings, and assemblies. Use of in-house software. Materials & Supply fee: $15.00

EML 5060 ECS-MMAE 3(3,0) 

EML 5066 ECS-MMAE 3(3,0) 

EML 5105 ECS-MMAE 3(3,0) 
Gas Kinetics and Statistical Thermodynamics: PR: EAS 4134 or EML 4703. Molecular and statistical viewpoint of gases and thermodynamics; Boltzmann collision integral, partition functions, non-equilibrium flows. Applications in thermo-fluid systems.

EML 5131 ECS-MMAE 3(3,0) 

EML 5152 ECS-MMAE 3(3,0) 

EML 5211 ECS-MMAE 3(3,0) 
Continuum Mechanics: PR: EML 3500 or EML 4703 or EAS 4200 or C.I. Introduction to tensors; deformation and strain; stress; balance laws, applications in Newtonian fluid dynamics and isotropic linear elasticity.

EML 5224 ECS-MMAE 3(3,0) 
Acoustics: PR: EML 4220, CR: EML 5060. Elements of vibration theory and wave motion; radiation, reflection, absorption, and transmission of acoustic waves; architectural acoustics; control and abatement of environmental noise pollution; transducers.

EML 5250 ECS-MMAE 3(3,0) 
Structural Design: PR: EML 3303, EML 4220, and EML 5060. Theoretical basis. Measurement techniques, excitation, transducers, data acquisition. Detailed data analysis, modal parameter extraction, curve-fitting procedures, Modeling.
ENC 1101H AS-ENG 3(3,0)
Honors Freshman Composition II: 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.

ENC 3211H AS-ENG 3(3,0)
Honors Theory and Practice of Technical Writing: PR: Permission of Honors and ENC 1102H or equivalent credit. Taught at Honors level. Definition, history, scope, practices, and theoretical bases of technical writing and its relationship to general English studies.

ENC 3241H AS-ENG 3(3,0)
Honors Writing for the Technical Professional: PR: Permission of Honors and ENC 1102H or equivalent credit. Taught at Honors level. Instruction and practice in expository prose used in technical writing, layout and design of data, and translation of technical documents for the lay audience.

ENC 4265 AS-ENG 3(3,0)
Writing for the Computer Industry: PR: ENC 1102 and Junior standing, or C.I. This course addresses the special demands of writing for the computer industry.

ENC 4293 AS-ENG 3(3,0)

ENC 4294 AS-ENG 3(3,0)
Technical Documentation II: PR: ENC 4293. Practical application of editing theory to large ongoing projects from the student’s particular field. Should be taken concurrently with ENC 4215. Materials & Supply fee: $10.00

ENC 4295 AS-ENG 3(3,0)
Technical Documentation III: PR: ENC 4294. Designing, writing, and illustrating manuals, e.g., repairs, maintenance or users. Project supervised by a member of a student’s major department or technical editor of a corporation. Materials & Supply fee: $10.00

ENC 4312 AS-ENG 3(3,0)
Theory & Practice of Persuasive Writing: PR: ENC 1102. Developing and applying rhetorical and logistical challenges. Application of practical principles, systems design and analysis. May be repeated for credit.

ENC 4360 AS-ENG 3(3,0)
Nature Writing: PR: CRW 3013 or C.I. Students will write essays that explore different approaches to writing about the natural world, and will discuss issues raised by such writing.
UFC Courses and Descriptions

**ENC 4414** AS-ENG 3(3,0)  
**Writing and Hypertext:** PR: ENC 3211 or ENC 3241. Theories of electronic literacy and information to develop a more critical sensibility regarding hypertext.

**ENC 4415** AS-ENG 3(3,0)  
**Digital Rhetorics and The Modern Dialectic:** PR: ENC 1102. This online course explores the development of digital rhetoric through a close reading and analysis of formative rhetorical texts, modern American fiction, and films.

**ENC 5214** AS-ENG 3(3,0)  
**Production and Publication Methods:** PR: Graduate status or senior standing or C.I. Theory and practice of production and publication methods for technical writers.

**ENC 5216** AS-ENG 3(3,0)  
**Editing: Professional Writing:** PR: Graduate status or 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.

**ENC 5219** AS-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.

**ENC 5225** AS-ENG 3(3,0)  
**Theory and Practice of Document Usability:** PR: Graduate status or senior standing or C.I. Presents theory and practice of how document usability is assessed and improved.

**ENC 5237** AS-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.

**ENC 5245** AS-ENG 3(3,0)  
**Teaching Professional Writing:** PR: Graduate status or senior standing or C.I. Preparing students to determine writing needs of professional discourse communities, analyze those needs, and design in-house or freelance writing programs to address those needs.

**ENC 5256** AS-ENG 3(3,0)  
**Gendered Rhetoric:** PR: Graduate status or 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.

**ENC 5276** AS-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).

**ENC 5277** AS-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.

**ENC 5291** AS-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.

**ENC 5306** AS-ENG 3(3,0)  
**Persuasive Writing:** PR: Graduate status or senior standing or C.I. Theory and practice of writing persuasively.

**ENC 5335** AS-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 rhetoric form classical to contemporary times.

**ENG 5337** AS-ENG 3(3,0)  
**Modern Rhetorical Theory:** PR: Graduate status or senior standing or C.I. With special attention to the rhetorical structure, the course studies theory and practice of modern rhetorical theory.

**ENG 5338** AS-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.

**ENG 5344** AS-ENG 3(3,0)  
**Proposal Writing:** PR: Graduate status or senior standing or C.I. Theory and practice of writing proposals.

**ENG 5425** AS-ENG 3(3,0)  
**Hypertext Theory and Design:** PR: Graduate status, post bac, or senior standing, or C.I. Theoretical and practical study of the uses and premises of hypertext.

**ENG 5427** AS-ENG 3(3,0)  
**Hypertext:** PR: Graduate status or senior standing or C.I. A study of the theory and practice of computer-driven hypertext.

**ENG 5705** AS-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.

**ENG 5712** AS-ENG 3(3,0)  
**Studies in Literary 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 literary studies.

**ENG 5745** AS-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.

**ENG 5945** AS-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.

**ENG 3010** AS-ENG 3(3,0)  
**Practical Criticism:** PR: ENC 1102. Student evaluation of selected fiction, poetry, and drama through practical exercises in literary criticism.

**ENG 3014** AS-ENG 3(3,0)  
**Theories and Techniques of Literature Study:** PR: ENC 1102. Junior standing, or C.I. Techniques of analysis, theories of interpretation, and application of critical approaches to selected works.

**ENG 3073** AS-ENG 3(3,0)  
**Cultural Studies Literature:** PR: ENC 1102. The theoretical and cultural developments over time that call for broadening the applications of literary analysis to produce "cultural studies."

**ENG 4114** AS-ENG 3(3,0)  
**Literature and Film:** PR: ENC 1102 and ENC 3014. The differences in emphasis, medium, and technique in selected novels and their film adaptations.

**ENG 5009** AS-ENG 3(3,0)  
**Methods of Bibliography and Research:** PR: Graduate status or senior standing or C.I. Bibliographical, literary and systematic approaches to research at the graduate level in language and literature.

**ENG 5918** AS-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.

**ENL 2012** AS-ENG 3(3,0)  
**English Literature I:** PR: ENC 1102. Beowulf to 1798.

**ENL 2022** AS-ENG 3(3,0)  
**English Literature II:** PR: ENC 1102. From 1798 to 1914.

**ENL 3951** AS-ENG 3(3,0)  
**Orlando Shakespeare Festival:** PR: ENC 1102. Involvement in theory and practice of Shakespeare’s art by performance-oriented study and participation in the Orlando Shakespeare Festival's pre-season activities and productions.

**ENL 3951H** AS-ENG 3(3,0)  
**Orlando Shakespeare Festival Honors:** PR: ENC 1102 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.

**ENL 4101** AS-ENG 3(3,0)  
**English Novel:** PR: ENC 1102 and ENC 3014. Analysis of major English novelists.

**ENL 4220** AS-ENG 3(3,0)  
**English Renaissance Poetry and Prose:** PR: ENC 1102 and ENG 3014. The course will examine selected poetry and prose of Wyatt, Surrey, Spenser, Marlowe, Raleigh, Daniel, Shakespeare, Chapman, Lyly & others.

**ENL 4230** AS-ENG 3(3,0)  
**18th Century Studies:** PR: ENC 1102 and ENG 3014. May be repeated for credit.

**ENL 4240** AS-ENG 3(3,0)  
**English Romantic Writers:** PR: ENC 1101, ENC 1102 and ENG 3014. Study of English poets and essayists of the romantic period, such as Wordsworth, Coleridge, Hazlitt, Lamb, Byron, Shelley and Keats.

**ENL 4253** AS-ENG 3(3,0)  
**The Victorian Age: Poetry:** PR: ENC 1102 and ENG 3014. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, the Rossettis, and Emily Bronte.

**ENL 4262** AS-ENG 3(3,0)  
**Nineteenth Century British Prose:** PR: ENC 1102 and ENG 3014. Essays and fiction of the nineteenth century.

**ENL 4273** AS-ENG 3(3,0)  
**Modern British Literature:** PR: ENC 1102 and ENG 3014. Major writers of modern British literature.

**ENL 4311** AS-ENG 3(3,0)  
**Chaucer:** PR: ENC 1102 and ENG 3014. The Canterbury Tales, Troilus and Criseyde, and other works.

**ENL 4333** AS-ENG 3(3,0)  
**Shakespeare Studies:** PR: ENC 1102 and ENG 3014. Reading, analysis, and discussion of Shakespeare’s plays. May be repeated for credit.

**ENL 4341** AS-ENG 3(3,0)  
**Milton and His Age:** PR: ENC 1102 and ENG 3014. Paradise Lost, Paradise Regained, Samson Agonistes,
shorter poems and selected prose.

ENL 5006 AS-ENG 3(3,0) British Literature: Medieval to Modern: PR: Graduate 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.

ENL 5237 AS-ENG 3(3,0) Eighteenth Century Studies: PR: Graduate status or senior standing or C.I. Reading, analysis, and discussion of literature in English:1660-1880.

ENL 5250 AS-ENG 3(3,0) The Victorian Age: Poets: PR: Graduate status or senior standing or C.I. Poems of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, Hardy, the Rossettis, Emily Bronte, and others.

ENL 5256 AS-ENG 3(3,0) Victorian Literature: PR: Graduate status or senior standing or C.I. A study of the major prose works and selected poetry of British Victorian writers.

ENL 5335 AS-ENG 3(3,0) Studies in Shakespeare: PR: 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.

ENL 5347 AS-ENG 3(3,0) The Age of Milton: PR: Graduate status or senior standing or C.I. Emphasis on the non-dramatic works of John Milton. Selections from the non-dramatic works of other 17th-century figures.

ENV 3001 ECS-CEE 3(3,0) Introduction to Environmental Engineering: PR: CHM 2046 and MAC 2312. Introduction to concepts and terminology of environmental engineering. Stresses material and energy balances. Covers air, water and land pollution. May be repeated for credit.

ENV 4008C ECS-CEE 3(2,2) Environmental Engineering Capstone Design: PR: one of - ENV 4562C, ENV 4300C, ENV 4122C, or ENV 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.


ENV 4120 ECS-CEE 3(3,0) Air Pollution Control: PR: ENV 3001 and CWR 3201. Air resources engineering design, and operation of air pollution control systems.

ENV 4122C ECS-CEE 3(2,2) Air Pollution Control Design: Project course on design of air pollution control equipment and systems. Materials & Supply fee: $15.00.

ENV 4300C ECS-CEE 3(2,2) Solid Waste Facility Design: PR: ENV 4341. Project course on design of a municipal solid waste landfill. Materials & Supply fee: $15.00.

ENV 4341 ECS-CEE 3(3,0) Solid Waste Management: PR: ENV 3001 or C.I. Engineering design, planning, and analysis problems associated with storage, collection, processing, and disposal of solid and hazardous wastes.

ENV 4432 ECS-CEE 3(3,0) Potable Water Treatment: PR: ENV 3001 and CWR 3201. Detailed investigation of principles of design and operation of potable water treatment facilities. May be repeated for credit.

ENV 4531 ECS-CEE 3(3,0) Wastewater Treatment Processes: PR: ENV 3001 and CWR 3201. Detailed investigation of principles of design and operation of wastewater treatment facilities. May be repeated for credit.

ENV 4561 ECS-CEE 4(4,0) Environmental Engineering - Process Design: PR: ENV 3001 and CWR 3201. Water treatment and wastewater treatment design considerations with effluent and sludge handling, treatment, and disposal.


ENV 4563 ECS-CEE 3(3,0) Environmental Control Systems: PR: EGN 3343, EGN 3373 and CWR 3201 CR: ENV 4561. Analysis and design of process control systems in environmental engineering applications including process dynamics, instrumentation, and control system configuration.

ENV 5071 ECS-CEE 3(3,0) Environmental Analysis of Transportation Systems: PR: CWR 3201; ENV 3001. Prediction and abatement of pollution from transportation sources. Analysis techniques and environment laws.


ENV 5334 ECS-CEE 3(3,0) Characterization of Hazardous Waste Sites: PR: CWR 4101C and ENV 4341 or C.I. Practical and comprehensive methods of hazardous waste site characterization to determine site properties, contamination type, magnitude and risk, and remedial actions.

ENV 5335 ECS-CEE 3(3,0) Hazardous Waste Management: PR: ENV 3001 or C.I. Engineering planning and analysis associated with the handling, storage, treatment, transportation, and disposal of hazardous wastes.

ENV 5410 ECS-CEE 3(3,0) Drinking Water Treatment: PR: ENV 4561. Drinking water treatment using existing and newly developed processes. Fe, Mn, As, NO3, DBP's, SOC's and other contaminants using oxidation, membranes, ion exchange, precipitation, sorption, and other processes.

ENV 5505 ECS-CEE 3(3,0) Sludge Management Operations in Environmental Engineering: PR: ENV 4561. Theory and design of sludge management operations and processes in environmental engineering, including stabilization dewatering and ultimate disposal.


EPH 5335 ED-CFCS 3(3,0) Physical and Sociological Implications of Handicapping Conditions: Overview of physical and sociological factors which may contribute to delayed learning or physical impairments in the exceptional populations. Physical interventions and first-aid practices are examined.

ESE 3940 ED-TLP 3-16(0,3,16) Internship I — Secondary: PR: EDG 4323 and C.I. Student teaching in a secondary school under the supervision of a certified classroom teacher.

ESE 4943 ED-TLP 7-12(0,3,35) Internship II — Secondary: PR: ESE 3940 or ESE 3942. Student teaching in a secondary school under the direction of a certified classroom teacher. Scheduled concurrent seminars.

ESE 5214 ED-TLP 3(3,0) Secondary School Curriculum Improvement I: PR: Regular Certificate or C.I. Secondary School self studies for curriculum projects, accreditation reports, or staff development.


ESE 4234 ECS-IEMS 3(3,0) Quality Engineering: PR: STA 3032. Basic concepts and techniques of quality control; applications of statistics in industrial research; design of quality assurance systems; reliability engineering.

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 queueing. Course covers theory through application and implementation of results.

ESE 4321 ECS-IEMS 3(3,0) Quantitative Techniques in Industrial Engineering: PR: ESI 4312. Extension of ESI 4312, with primary emphasis on Operations Research and statistical applications to industrial engineering problems.

ESE 4523C ECS-IEMS 3(2,3) Systems Simulation: PR: STA 3032, EGN 3211, or higher level programming language. Methods and procedures for simulating large-scale systems with digital computers. High level programming and simulation languages are used. Materials & Supply fee: $20.00.

ESE 5219 ECS-IEMS 3(3,0) Engineering Statistics: PR: C.I. Discrete and continuous probability distributions, hypothesis testing, regression, nonparametric stats and ANOVA.

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.

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.

ESE 5315 ECS-IEMS 3(3,0) Research Foundations for IE and OR Modeling: PR: MAP 2302, ESI 5219 or equivalent; ESI 4312; and C.I. Research foundations for IE/OR modeling, including constructive analysis of published research, methods of proof, research foundations in decision theory, optimization, and related areas.

UCF Courses and Descriptions
and the sciences.

Assessment and management. Selected methodologies

Photonics technologies and systems based on wave

properties of light, interaction with different media, and

and other engineering areas. Focuses on practicing OR analysts. Materials & Supply fee: $45.00

Network Based Project Planning, Scheduling, and

Control: PR: ESI 4312 or ESI 5316. Probabilistic and
deterministic approaches for planning, scheduling, and
controlling complex, large-scale projects. PERT, CPM,
resource leveling, risk analysis.

performing discrete systems simulation, including net-
work modeling, will be treated.

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.

Photonics Simulation: PR: EST 3222. The behavior of
light in standard optical systems consisting of both refrac-
tive and reflective light. Begin with general optic principles
and end with system design. Not open to Physics majors
or minors.

Photonics Technology: PR: PHY 2053C, PHY 2054C,
MAP 3401, MAC 2312, and MAC 2253 or MAC 2211.
Course will introduce engineering technology students to
the field of photonics. Light properties, optics, lasers, sys-
tems.

Programmable Logic Applications and Device
Integration: PR: MAC 1105, EET 3085C, or equivalent.
Builds on knowledge of logic fundamentals programming
technologies, integrated circuits, and numerical systems
to operate and test systems using programmable logic proto-
col.

Est 4227 Ecs-Ent 3(3,0)

Photonic Sensors and Devices: PR: EST 3213, EST
3211. How light is converted to electrons to incorporate an
electronic system. Standard means of detecting light such
as photodiodes and charge-coupled devices will be cov-
ered.

Est 4236 Ecs-Ent 3(3,0)

Laser Systems Technology: PR: EST 3222. The theory
of light amplification using gas, solid-state, and semi-con-
ductor lasers.

Est 4256 Ecs-Ent 3(3,0)

Photonic Communication: PR: EST 4227, EST 4236.
The use of light as media for transmission of information.
Modulation techniques, light transmission through different
media, and detection and demodulation.

EST 4259C Ecs-Ent 3(1,4)

Photonic Systems: PR: Engineering Technology senior
within 18 hours of graduation, C.I. Senior design project
course for the BSEET Photonics concentration.

EST 4502C Ecs-Ent 4(3,2)

Metrology and Instrumentation: PR: EGT 3541, EET
3085C, or equivalent. An introduction to the basic concepts
and terminology of metrology and instrumentation. Theory,
practices and techniques essential to industrial measure-
ment and laboratory practice are covered. Materials &
Supply fee: $10.00

ETC 4206 Ecs-Ent 3(3,0)

Construction Estimating: PR: MAC 1114, & EGN 1111C
or equivalent & ETC 4241. Techniques of making esti-
mates and computations of materials, labor, equipment,
overhead costs and profits. Software packages are util-
lized.

ETC 4241C Ecs-Ent 3(2,2)

Construction Materials and Methods: CR: EGT 3541.
Construction principles, details, materials and methods
used as related to the construction of buildings.

ETC 4242 Ecs-Ent 3(3,0)

Construction Contracts and Specifications: The role of
construction contracts, architectural specifications, product
specifications, industry standards and building codes in
the process of building construction.

ETC 4243 Ecs-Ent 4(4,0)

Building Systems: PR: PHY 2053C, EET 3085C, or
equivalent. Mechanical, electrical and electronic equip-
ment and systems used in commercial/multi-story build-
ings. Fundamentals of air conditioning, lighting, and con-
trol systems are covered.

ETC 4414C Ecs-Ent 3(2,2)

Applied Structural Design I: PR: EGT 3533C. Intro-
duction to indeterminate analysis. Analysis of steel
members, components and connections. Current code
and specification requirements.

ETC 4415C Ecs-Ent 3(2,2)

Applied Structural Design II: PR: EGT 3533C. Strength
analysis, design of reinforced concrete, steel, and
slabs, and walls. Current code and specification require-
ments.

ETD 3350C Ecs-Ent 3(2,2)

Applied CAD: PR: Engineering Drawing and some
CAD background. This course in computer-aided draft-
ing/design provides the student with the opportunity to
approach detailed and intricate drafting/design problems
from a computer perspective.

ETG 3533C Ecs-Ent 4(3,2)

1105, MAC 1114, EGT 3541, PHY 2053C, junior standing;
CR: MAC 2253 or MAC 2211. Relationship between exter-
nal forces and action of members of a structure. Topics
include stress, shear, moment, deflections, columns, con-
nections, and Mohr’s circle. May be repeated for credit.
Materials & Supply fee: $15.00

ETG 3541 Ecs-Ent 3(3,0)

Applied Mechanics: PR: MAC 1105 and MAC 1114
and PHY 2053C, or equivalent. Coplanar, parallel, con-
current, and non-current force systems. Centroids, CG’s,
moments of inertia. Principles of dynamics, rectilinear
motion and rotation, work, energy, power, impulse, momentum,
and impact.

ETG 4950C Ecs-Ent 3(1,4)

Senior Design Project: PR: Senior Standing. Engineering
Technology major and must be within 18 hour of graduation.
Supervised individual or group projects involving project def-
nition, planning, development, testing, and evaluation.

ETI 3116 Ecs-Ent 3(3,0)

Applied Engineering Quality Assurance: PR: MAC
1105, STA 2014C or STA 2023; CR: ETI 3651C. Fundamentals
of industrial quality control. Technical speci-
fications, measurements standards, inspection, and gage-
ing. Process control techniques.

ETI 3418C Ecs-Ent 3(2,2)

Computer Numerical Controls - Machining
Applications: PR: ETD 3500C. Theory of methods and
concepts for machining, computer numerical controls/pro-
grams, types of operations, cutting tools, machine tools,
and electrical discharge machines. May be repeated for
credit.

ETI 3421 Ecs-Ent 3(3,0)

Materials and Processes: PR: MAC 1105 and MAC 1114
or equivalent; Chemistry. A study of fundamental proper-
ties of materials. Current industrial practices in founding,
forming, joining and shaping processes.

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.

ETI 3671 Ecs-Ent 3(3,0)

Technical Economic Analysis: PR: MAC 1105 or equiv-
alent. Analysis of cost elements in technical operations.
Basis for comparison of alternatives.

ETI 3690 Ecs-Ent 3(3,0)

Technical Sales: PR: Junior standing or C.J. Application of
technical knowledge to sales and service. Relationship of
technical sales organization to production, customers, and
competitors.

ETI 4150 Ecs-Ent 3(3,0)

Spacecraft Quality Assurance And Testing: PR: PHY
2053C. Quality assurance, reliability, and testing of space
hardware and software, with the examination of designing,
manufacturing, testing, and operation.

ETI 4186 Ecs-Ent 3(3,0)

Applied Reliability: PR: ETI 3116. Practical application of
reliability concepts and analysis applicable to the design,
production and logistics phases of systems and system
components.

ETI 4205 Ecs-Ent 3(3,0)

Applied Logistics: PR: ETI 3116 or C.I. Introduction to
logistics. Emphasis on practical applications. Includes sys-
tems engineering, cost systems, effectiveness, reliability,
maintainability, system functional analysis, logistic support
analysis, life cycle cost analysis.

ETI 4381 Ecs-Ent 3(3,0)

Ground System Design: PR: PHY 2053C. Fundamentals
of ground system design and operation, its architecture
and technology. Cost and performance trade offs in the
spacecraft-to-ground communications link and ground
system design.

ETI 4382C Ecs-Ent 3(1,4)

Launch Processing Technology: PR: or CR: ETI 4150 or
C.J. Processes and methods in the preparation, integration,
and launch of a space payload and launch vehicle.
Includes hands-on launch processing activities in a labo-
atory environment.

ETI 4448 Ecs-Ent 3(3,0)

Applied Project Management: PR: ETI 3651C.
Statement of work, activity decisions, timelines, schedul-
ing, and resource allocation methods. Techniques will be
appropriate for large and small projects within commercial,
academic, or non-profit organizations.
ETI 4635 ECS-ENT 3(3,0) Technical Administration: PR: ETI 3651C. Techniques of applying management principles to professional positions held by Engineering Technologists. Management functions of planning, organizing, motivating, and controlling, production, sales, and service.

ETI 4640 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.

ETI 4661C ECS-ENT 3(2,2) Applied Facilities Planning and Design: PR: ETI 3421, engineering drawing and senior standing. The design of manufacturing facilities and material handling systems.

ETI 4700 ECS-ENT 3(3,0) Occupational Safety: PR: Junior standing. Accident prevention and the operation of an industrial safety program. Basic requirements of the Occupational Safety and Health Act standards.

ETI 4835 ECS-ENT 3(3,0) Rocket Propulsion Technology: PR: PHY 2053C, Calculus I, II, CAD. Principles of rocketry; solid, liquid and hybrid rocket stages; specific impulse computations; fuel and thrust computations; nose cone, and nozzle designs; ignition mechanisms.

ETI 4836 ECS-ENT 3(3,0) Space Systems Technology: PR: PHY 2053C. Applied space technology, design of space systems, space environment, flight dynamics, atmospheric drag, power supply, communications technology. May be repeated for credit.

ETI 4837C ECS-ENT 3(2,2) Technology of Small Space Payloads: PR: ETI 4838 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. Materials & Supply fee: $34.60

ETI 4838 ECS-ENT 3(3,0) Flight Dynamics Technology: PR: PHY 2053C, Calculus I, II, OBD. Orbital trajectory design; analysis of vehicle sustained g-forces; vehicle vibration analysis; orbital maneuvering; atmospheric re entry; launch windows; rocket apogee and down range computations; wind corrections and launch angles.

ETI 4839 ECS-ENT 3(3,0) Space Electro-Optics Technology: PR: PHY 2053C, Calculus I, II, CAD. Engineering aspects of current electro-optics and laser-optics technology in theory and application, including design, system integration, system alignment, system calibration, and testing.

ETM 4220 ECS-ENT 4(4,0) Applied Energy Systems: PR: MAC 2523 or MAC 2311; Chemistry, College Physics. Introduction to energy, work, and thermal systems and processes. Applications of heat energy with emphasis on solar energy.

ETM 4225 ECS-ENT 3(3,0) Manufacturing of Photonics: PR: EST 3222. Manufacturing processes and practices of photonic devices and systems. Tolerance studies, manufacturing lines, tests, measurements, and other topics related to low and high volume photonics manufacturing.

ETM 4232C ECS-ENT 4(3,2) Applied Heat Transfer: PR: ETG 3541 or equivalent, MAC 2523 or MAC 2311. An introduction to the basic concepts and applications of conduction, convection and radiation heat transfer. Basic energy balances and their applications are emphasized. Study state and transient phenomena are evaluated, including numerical solutions.

ETM 4331C ECS-ENT 4(3,2) Applied Fluid Mechanics: PR: MAC 2253 or MAC 2311; PHY 2053C or equivalent. An introduction to the basic concepts of hydrostatics and hydrodynamics, flow of ideal fluids, continuity of mass, impulsive and momentum principles, conservation of energy, flow of fluid in pipes, etc.

ETM 4403C ECS-ENT 3(2,2) Applied Kinematics: PR: ETG 3541 and Engineering Drawing. Analysis and design of machine elements and mechanisms involving velocities and accelerations of components, linkages, gears, and cams.


ETM 4755 ECS-ENT 4(4,0) Applied Air Conditioning: PR: ETM 4331C. Analysis of body comfort, psychrometrics, heating and cooling load, specification of air conditioning systems, air distribution systems and system piping requirements.

EUH 2000 AS-HIST 3(3,0) Western Civilization I: A survey of western civilization from ancient to 1648.


EUH 2001 AS-HIST 3(3,0) Western Civilization II: A survey of western civilization from 1648 to present. May be taken before EUH 2000.


EUH 3122 AS-HIST 3(3,0) Medieval Society and Civilization: PR: EUH 2000 and 2001 or C.I.

EUH 3142 AS-HIST 3(3,0) Renaissance and Reformation: PR: EUH 2000 and 2001 or C.I. Influence of Renaissance humanism on arts, letters, and politics; Luther and Protestantism; the Catholic Counter-Reformation and the Thirty Years’ War.

EUH 3235 AS-HIST 3(3,0) Romanticism and Realism: PR: EUH 2000 and 2001 or C.I. Napoleon and nationalism; new ideas; conservation; liberalism, romanticism, republicanism and socialism; urbanization, technology and mass culture, religious decline; Realpolitik, racism, imperialism, and militarism.

EUH 3242 AS-HIST 3(3,0) Modern Europe and the First World War: A survey of the impact of the democratic institutions, education, transportation, housing, health, mass communications, entertainment, women, and warfare.

EUH 3281 AS-HIST 3(3,0) Second World War and Rebirth of Europe: PR: EUH 2000 and 2001 or C.I. Origins of World War II; Hitler’s “New Order,” and resistance movements; Cold War; de-Stalinization of Russia; Sovietization of East Central Europe; Western reconstruction, and prosperity.

EUH 3315 AS-HIST 3(3,0) History of Modern Spain: PR: Modern European History (18th-20th century). The evolution of Modern Spain through its key institutions, cultural as well as social movements, and impact of political and intellectual trends, 1700-Present.


EUH 3431 AS-HIST 3(3,0) History of Modern Italy: PR: EUH 2001. The history of modern Italy from the origins of national unification through the post-World War II era.

EUH 3431H AS-HIST 3(3,0) Honors History of Modern Italy: PR: EUH 2001 and consent of Honors. The history of modern Italy from the origins of national unification through the post-World War II era, with honors content.

EUH 3451 AS-HIST 3(3,0) History of Modern France: PR: EUH 2001, EUH 3242 or C.I. The course traces the evolution of France through the study of French political thought, institutional development, social movements, and international roles from 1700-present.

EUH 3651 AS-HIST 3(3,0) War and Society: Evolution of weapons, tactics, strategy; role, social status, recruitment of soldiers; influence of military on governments; and international efforts to preserve peace.

EUH 4284 AS-HIST 3(3,0) Fascism and the Totalitarian Dictatorships: PR: EUH 2000 and 2001 or C.I. Totalitarian ideologies, institutions, and practices in Lenin’s and Stalin’s Russia. Mussolini’s Italy, and Hitler’s Third Reich; fascist movements in the non-totalitarian states.


EUH 4465 AS-HIST 3(3,0) Hitler’s Third Reich: PR: EUH 2000 and 2001 or C.I. German nationalism and militarism; World War I and Versailles Treaty; the Weimar Republic and the rise of the Nazis; Second World War, division and recovery.

EUH 4500 AS-HIST 3(3,0) English History to 1485: PR: EUH 2000 and 2001 or C.I.

EUH 4501 AS-HIST 3(3,0) English History: 1485-1815: PR: EUH 2000 and 2001 or C.I.

EUH 4502 AS-HIST 3(3,0) British History: 1815-Present: PR: EUH 2000 and 2001 or C.I.

EUH 4571 AS-HIST 3(3,0) History of Russia to 1801: PR: EUH 2000 and 2001 or C.I. Ivan the Great’s State; Mongol Yoke; Development of Muscovite Expansion and Absolutism; Time of Troubles; Westernization of Russia under Peter I and Catherine; Role of Orthodox Church.

EUH 4574 AS-HIST 3(3,0) History of Russia: 1801-1917: PR: EUH 2000 and 2001, or C.I. Alexander I, Napoleonic Invasion, Revolutionary Movement, Russian Policy toward Central Asia and China;
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUH 4582</td>
<td>20th Century Russian Diplomatic History: PR: C.I.</td>
<td>Russian diplomatic history from the signing of the Entente Cordiale to the aftermath of the Cold War.</td>
</tr>
<tr>
<td>EUH 4610</td>
<td>Women in European Society: From Medieval to Modern:</td>
<td>PR: Junior standing or C.I. This course examines the changing situation of women in Europe from the Middle Ages to the twentieth century.</td>
</tr>
<tr>
<td>EUH 4620</td>
<td>European Great Powers: 1815-1914: PR: EUH 2000 and</td>
<td>EUH 2000 and 2001 or C.I. Congress of Vienna, Metternich's system Crimean War, unifications of Italy &amp; Germany, the Bismarckian era, the alliance systems, and the outbreak of World War I.</td>
</tr>
<tr>
<td>EUH 5247</td>
<td>Colloquium in Europe from 1919-1939: PR: Graduate</td>
<td>PR: Graduate status or senior standing or C.I. Graduation or class discussion of the literature on selected topics in European history between 1919 and 1939.</td>
</tr>
<tr>
<td>EUH 5285</td>
<td>Colloquium in Europe Since World War II: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in European history since WW II.</td>
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</tr>
<tr>
<td>EUH 5371</td>
<td>Colloquium in Spanish History: PR: Graduate status</td>
<td>PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in Spanish history.</td>
</tr>
<tr>
<td>EUH 5415</td>
<td>Rome and Early Christianity: PR: Graduate standing</td>
<td>PR: Graduate status or senior standing or C.I. 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.</td>
</tr>
<tr>
<td>EUH 5546</td>
<td>Colloquium: British History: PR: Graduate status</td>
<td>PR: Graduate status or senior standing or C.I. 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.</td>
</tr>
<tr>
<td>EVR 5930</td>
<td>Seminar in Conservation Issues: PR: Graduate status</td>
<td>Seminar in Conservation Issues: PR: Graduate status or senior standing or C.I. Contemporary topics stressing a broad base of conservation issues will be the focus of this seminar series. May be repeated for credit, as course content will differ.</td>
</tr>
<tr>
<td>EVT 3062</td>
<td>Professional Role of the Vocational Teacher: PR: EVT</td>
<td>EVT 3062 or C.I. Study, practice, and achievement of competencies in assessing student cognitive, affective, and psychomotor performance in vocational education.</td>
</tr>
<tr>
<td>EVT 3312</td>
<td>Course Construction in Health Occupations Education:PR: EVT 3365 or C.I. Planning and preparation of materials, managing the laboratory and involvement in appropriate Vocational Student Organizations. Clinical instruction related to vocational education and industry training.</td>
<td></td>
</tr>
<tr>
<td>EVT 3365</td>
<td>General Methods/Testing Evaluation in Vocational Education:</td>
<td>EVT 3365 or C.I. Planning and preparing instructional materials, organizing and managing the Industrial Education laboratory, and involvement in VICA.</td>
</tr>
<tr>
<td>EVT 3502</td>
<td>Special Needs of Vocational Students: PR: EVT 3365</td>
<td>EVT 3502 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.</td>
</tr>
<tr>
<td>EVT 4065</td>
<td>Principles and Practices of Vocational Education: PR:</td>
<td>EVT 4065 or C.I. Study of the history, structure, and current status of vocational education. Achievement of competency in applying principles of vocational education to vocational student organizations, advisory committees, and economic development.</td>
</tr>
<tr>
<td>EVT 4169</td>
<td>Curriculum Development Techniques for Industry Training: The practical application of fundamental knowledge, important skills, alternative analysis methods, and the critical elements of the trainers analysis tasks.</td>
<td></td>
</tr>
<tr>
<td>EVT 4368</td>
<td>Advanced Teaching Techniques for Vocational Education:PR: EVT 3365 or C.I. Study of creative, simulation, instructional modeling and evaluation of instructional effectiveness.</td>
<td></td>
</tr>
<tr>
<td>EVT 5260</td>
<td>Cooperative Programs in Vocational Education: PR:</td>
<td>EVT 5260 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.</td>
</tr>
<tr>
<td>EVT 5561</td>
<td>Student Guidance in the Vocational Program: PR:</td>
<td>EVT 5561 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.</td>
</tr>
<tr>
<td>EVT 5817</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>EXP 4507C</td>
<td>Advanced Human Memory and Cognition: PR: PSY 3213C, EXP 3604C. In-depth coverage of experimental research on human memory and cognition. Materials &amp; Supply fee: $15.00</td>
<td></td>
</tr>
<tr>
<td>EXP 5208</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>EXP 5254</td>
<td>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.</td>
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<tr>
<td>EXP 5256</td>
<td>Human Factors: PR: Graduate status or senior standing or C.I. Survey of human factors literature. Introduction to topics including human capabilities and human interfaces with human-machine systems.</td>
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<tr>
<td>EXP 5445</td>
<td>Psychology of Learning and Motivation: PR: DEP 5057, and graduate status or senior standing or C.I. Examination of theories and research concerning the acquisition and retention of behavior, as well as motivational factors which influence learning and behavior.</td>
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<tr>
<td>FIL 1001</td>
<td>AS-FILM 3(3,0) Cinema Survey: Introductory course that focuses on different approaches to studying cinema.</td>
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<tr>
<td>FIL 1001H</td>
<td>AS-FILM 3(3,0) Honors Cinema Survey: PR: Permission of Honors. Introductory course that focuses on different approaches to studying cinema. Honors-level content.</td>
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<tr>
<td>FIL 1007</td>
<td>AS-FILM 3(3,0) Foundations of Story: Analysis of dramatic and cinematic narrative structures, both plot and character, from an historical and cultural perspective.</td>
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</table>
FIL 1008 AS-FILM 3(3,0) Cinematic Expression/Aesthetics: Analysis and practice of aesthetic principles essential in filmmaking, including composition, moving graphics, image design, lighting styles. Materials & Supply fee: $13.00

FIL 1009 AS-FILM 3(3,0) Cinematic Expression for Majors: PR: FIL 1007 or FIL 1100. Analysis and practice of aesthetic principles essential in film-making, including composition, moving graphics, image design, and lighting styles.

FIL 1100 AS-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.

FIL 1226 AS-FILM 3(3,0) Film Production Tools: Basic tools of filmmaking, including digital video cameras, 16 mm cameras, basic lighting equipment, non-linear editing equipment, sound recording and mixing, laboratory processing, and digital post-production.

FIL 2107 AS-FILM 3(3,0) Script Analysis: CR: ENC 1101, FIL 1107. Introduction to dramatic and visual storytelling techniques used in both traditional and non-traditional filmmaking and screenwriting.

FIL 2200 AS-FILM 3(3,0) Cinematography I: PR: Film majors, FIL 2274C, FIL 2220. Concepts and tools of cinematography and lighting. Materials & Supply fee: $45.00

FIL 2220 AS-FILM 3(3,0) Directing I: PR: Film Major, FIL 1008, FIL 3124, FIL 3201C. Introduction to processes and techniques of directing.

FIL 2221 AS-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.

FIL 2224C AS-FILM 3(3,0) Foundations of Production: Production techniques for non-majors. Introduction to basic techniques used in film making. Students must supply their own video equipment and editing equipment. Any format is acceptable.

FIL 2274C AS-FILM 3(3,2) Editing I: PR: Film Major, FIL 1008, FIL 3124, FIL 3201C. Basic editing concepts and techniques, using non-linear editing systems. Materials & Supply fee: $45.00

FIL 2400 AS-FILM 3(2,2) History of Motion Pictures: The history of motion pictures as art and industry, from 1895 to the present. Materials & Supply fee: $25.00

FIL 2532 AS-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. Materials & Supply fee: $10.00

FIL 3006 AS-FILM 3(3,0) Art of the Cinema: An analysis of basic elements of cinematic style including film direction, editing, cinematography, art direction and sound. Materials & Supply fee: $25.00

FIL 3102 AS-FILM 3(3,0) Writing for Film and TV: PR: ENC 1102, Junior Standing. Theories and process of screen writing for motion pictures and television. Students learn how to create stories and scripts for the entertainment marketplace.
Early and contemporary theories of story structure. Graded S/U. Speakers from the film industry. Course may be repeated.

Films and forums designed for students in the film and myths in cinema that influence or reflect our culture. Forums designed to provide awareness of styles, images, and significant documentary projects for community groups, heritage organizations, non-profit agencies using film, video and digital media.

Fil 4112C: Adaptation: PR: Majors only. Early and contemporary theories of story structure. Identification of divergent ideas without dilution, development of new language, and recognition of patterns in complex structures. May be repeated for credit. Graded S/U.

Fil 4103: Adaptation: PR: FIL 2107. The process of adapting scripts from other sources. The investigation of the legalities of adaptation, analysis of existing models, and written adaptations.

Fil 4111C: Feature/TV Writing I: PR: FIL major and FIL 3124. Writing workshop, examination of mythic storytelling, and ethics of scriptwriting.

Fil 4112C: Feature/TV Writing II: PR: FIL major and FIL 4111C. Advanced writing workshops, principles and methods of adaptation and reader's coverage.

Fil 4113C: 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.

Fil 4114C: Interactive Writing II: PR: FIL major and FIL 4113C. Advanced writing and development of short interactive narratives as well as examination of non-traditional structures as applied to interactive writing.

Fil 4127C: Motion Picture Genre: PR: FIL 2400. Analysis and evaluation of films, including their major genres, directors, styles, and periods. Materials & Supply fee: $10.00

Fil 4202C: Intermediate Film Production: PR: Film major, FIL 3201C. Advanced exploration of the aesthetic and technical facets of filmmaking. Materials & Supply fee: $45.00

Fil 4203C: Capstone I: PR: FIL 4133C, FIL 3625 or FIL 4228. Intensive tutorial guidance, instruction and evaluation of final film projects from initial concept through production. May be repeated for credit. Graded S/U. Materials & Supply fee: $45.00

Fil 4207: Film/Animation Majors. Episodic film production techniques.

Fil 4208C: Directing II: PR: FIL major and FIL 2220. Principles and practice in directing narrative and/or documentary motion pictures. Materials & Supply fee: $45.00

Fil 4210C: Cinematography II: PR: FIL major, FIL 3201C, FIL 2200. Advanced principles and practices of cinematography. Materials & Supply fee: $45.00

Fil 4211C: Capstone II: PR: FIL major and FIL 4203C. Intensive tutorial guidance, instruction and evaluation of final film projects in post production. May be repeated for credit. Materials & Supply fee: $45.00

Fil 4212C: 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.

Fil 4213: Sound Design III: PR: FIL 4212C. Advanced aspects of sound mixing and sound editing using advanced protocols and digital format.

Fil 4223: Design for Film: PR: FIL major, FIL 3201C, FIL 4202C. Analysis of visual structure of film. Specific problems in art direction.

Fil 4228: Directing III: PR: FIL major, FIL 2200 and FIL 4208C. Advanced processes and techniques of directing. Materials & Supply fee: $45.00

Fil 4262C: Special Problems in Film Design: A series of exercises in craft, techniques, and design for film production, including animation. Materials & Supply fee: $20.00

Fil 4280: Animated Film-History for non film majors: PR: FIL 3410. Evolution of animation since World War II.

Fil 4284C: Non-Linear Editing: PR: FIL major and FIL 3201C. Provide basic working knowledge of AVID editing system, to edit assigned projects, give basic understanding of editorial styles and techniques in film storytelling. Materials & Supply fee: $45.00

Fil 4288C: Advanced Animation: PR: FIL major and FIL 3206C, 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. Materials & Supply fee: $15.00

Fil 4294C: Editing II: PR: FIL major and FIL 2274C. Theory, techniques and practices in picture editing. Materials & Supply fee: $45.00

Fil 4301C: Documentary Workshop I: PR: FIL 3304C. Socially significant documentary projects for community groups, heritage organizations, non-profit agencies using film, video and digital media.

Fil 4302C: Documentary Workshop II: PR: FIL 4301C. Advanced documentary projects for community groups, heritage organizations, non-profit agencies and NGOs using film, video and digital media.


Fil 4506C: Genre Writing: PR: FIL major, FIL 3503C. Advanced screenwriting practice in selected genres, including comedy, humor, western, crime, etc.


Fil 4574: Images and Text in Context: PR: FIL 2400 or C.I. Moving images, the still image, and text in their cultural contexts.

Fil 4602: Film Business: PR: FIL major, FIL 4207, FIL 4202C. This is a seminar course taught by a professional in the film industry which deals with issues relating to the organization and production of motion pictures.

Fil 4604: The Film Producer: PR: FIL major or Cinema Studies major, and FIL 4208C. The role of the producer is examined in the context of theatrical film.

Fil 4607: Film Production Management: PR: FIL major, FIL 3201C. Production, budgeting, script breakdown, construction of production boards, scheduling, location scouting, and crew procurement.

Fil 5609: 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.

FIN 2104: Personal Finance and Investments: PR: Open to all students (majors, minors, and non-majors). An overview of personal and family financial planning. Topics include...
housing, investments, insurance, retirement planning, estate planning, financial services, consumer credit, and tax planning.

FIN 3303  BA-FIN  3(3,0)

FIN 3403  BA-FIN  3(3,0)
Business Finance: PR: Junior standing and business major or minor, ACO 2021, ACO 2071, ECO 2013 and ECO 2023. With the balance sheet as a reference point, this course provides an introduction and overview of the acquisition, financing, and management of business assets.

FIN 3403H  BA-FIN  3(3,0)
Business Finance - Honors: PR: Finance major, ACO 2021, ACO 2071, ECO 2013, ECO 2023 and permission of Honors. Open to University honors students and other students participating in the honors program. Same as FIN 3403 with honors level content.

FIN 3414  BA-FIN  3(3,0)
Intermediate Corporate Finance: PR: Finance major, FIN 3403. In-depth study of the principles of corporate finance. Investment, financing, and capital decisions are examined.

FIN 3470  BA-FIN  3(3,0)

FIN 3504  BA-FIN  3(3,0)

FIN 4313  BA-FIN  3(3,0)
Management of Financial Institutions: PR: Finance major, FIN 3303 and FIN 3403. Analysis of management policies of financial institutions, including assets liability, and capital management. The economics and regulatory influence on competition is considered.

FIN 4324  BA-FIN  3(3,0)
Commercial Bank Management: PR: Finance major, FIN 3303. Analysis of the intersections of commercial banking policies and an analysis of current approaches to managing specific bank products.

FIN 4424  BA-FIN  3(3,0)
Advanced Topics in Financial Management: PR: Finance major, FIN 3414 and FIN 4453. Advanced study in financial management. Topics include capital budgeting, financial structure, and capital decisions. Case studies used extensively.

FIN 4453  BA-FIN  3(3,0)
Financial Models: PR: Finance major, FIN 3403, FIN 3414, and FIN 3504. Mathematical models applied specifically to financial problems, including those models suitable for representation and solutions on computers.

FIN 4514  BA-FIN  3(3,0)
Portfolio Analysis and Management: PR: Finance major, FIN 3303 and FIN 3504. Portfolio and capital market theory in the determination of rational investment policies. Risk analysis, portfolio analysis, and evaluation techniques.

FIN 4521C  BA-FIN  4(3,1)
Applied Portfolio Management I: PR: Finance major, FIN 3403, FIN 3504, and C.I. For UCF Student Managed Portfolio program participants. Provides detailed, rigorous analyses of Equity portfolio management topics, including risk/return, valuation, forecasting, portfolio construction, and performance appraisal.

FIN 4522C  BA-FIN  4(3,1)
Applied Portfolio Management II: PR: Finance major, FIN 4521C, and C.I. For UCF Student Managed Portfolio program participants. Rigorous coverage of advanced portfolio management topics, including uses of derivatives, tax issues, and style investing.

FIN 4533  BA-FIN  3(3,0)
Financial Derivatives: PR: Finance major, FIN 3303 and FIN 3504. Options, futures, forwards, and other derivative contracts. Investments traded in these markets are examined. Pricing and hedging are considered.

FIN 4604  BA-FIN  3(3,0)

FIN 4730  BA-FIN  3(3,0)
Senior Financial Consulting I: PR: Finance major, FIN 3403, FIN 3503, CR: FIN 3414, FIN 4453. Project management in a collaborative, interdisciplinary team environment. Incorporates financial problem solving, design and consulting in projects for major corporations. Part 1 of a two course sequence. Students must register for both semesters.

FIN 4731  BA-FIN  3(3,0)
Senior Financial Consulting II: PR: Finance major, FIN 4730. Project management in a collaborative, interdisciplinary team environment. Incorporates financial problem solving, design, and consulting in projects for major corporations. Part 2 of two semester course sequence. Students must register for both semesters.

FIN 4941  BA-FIN  3(0,3)
Finance Internship: PR: Finance or Real Estate major, minimum overall GPA of 2.75, consent of department chair. Supervised finance or real estate work experience in a pre-approved sponsoring organization. See department for information and application. Graded S/U.

FIN 5405  BA-FIN  3(3,0)
Financial Concepts: PR: Acceptance into the graduate program, ACG 5005 and ECO 5005 and ECO 5415 or equivalents. Effects of financial decisions upon the firm, interrelationships of these effects and alternatives available to financial managers in making these financial decisions.

FIN 5407  BA-FIN  1.5(1,5)
Financial Foundations: PR: Graduate standing or C.I. Effects of financial decisions upon the firm, interrelationships of these effects and alternatives available to financial managers in making these financial decisions.

FLE 3160  ED-TLP  3(3,0)
Education and Culture/Language Diversity: PR: Admission to major, overall 2.5 GPA, 3.0 GPA in major, and C.I. A cross-cultural field experience which includes cultural and language immersion. Theoretical and applied knowledge of culture and language diversity.

FLE 4290  ED-TLP  2(2,0)
Technology in the Foreign Language classroom: PR: EME 2240, EDG 4323. Applications of technology in the foreign language classroom including uses of the Web, email, chat, electronic portfolios, electronic curriculum planning tools, and software. May be repeated for credit.

FLE 4314  ED-TLP  3(3,0)
Foreign Language Teaching in Elementary Schools: Methods of planning and teaching foreign languages in the elementary school. The emphasis is on teaching communicatively and on integrating culture in the K-6 classroom.
intend to take French literature courses.

FRE 3410 AS-LANG 3 (3,0)
Advanced Oral French Abroad: PR: FRE 2200, FRE 2201, or equivalent. Designed for students participating in the Study Abroad Program in France. Students will be immersed throughout the term speaking French. May be repeated for credit.

FRE 3420 AS-LANG 3 (3,0)
French Composition: PR: FRE 2201 or equivalent. Development of skills in composition.

FRE 3423 AS-LANG 3 (3,0)
Advanced French Grammar Abroad: PR: FRE 2200, FRE 2201 or equivalent. Students will be immersed throughout the term applying grammatical concepts as they relate to written expression in order to enhance oral expression. May be repeated for credit.

FRE 3440 AS-LANG 3 (3,0)
Business French I: PR: Three semesters of French language. Introduces vocabulary and terminology in various French business activities, as well as standards, procedures, and practices of the French business world.

FRE 3441 AS-LANG 3 (3,0)
Business French II: PR: FRE 3440 or C.I. Introduction to French business language and practices.

FRE 3760 AS-LANG 3 (3,0)
Advanced French Oral Communication: PR: FRE 2201 or equivalent. Vocabulary building with systematic training in diction and location. Speeches and oral presentations as well as production and delivery of real-life dialogues.

FRE 3780 AS-LANG 3 (3,0)
French Phonetics and Diction: French phonology, with emphasis on phonetic groupings.

FRE 3955 AS-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.

FRE 4421 AS-LANG 3 (3,0)
Advanced French Conversation: PR: FRE 3760. Advanced conversation on directed topics from various disciplines; literature, art, psychology, philosophy, music, business, and the sciences.

FRE 4422 AS-LANG 3 (3,0)
Advanced French Composition: PR: FRE 3420. Readings and written imitations of modern literary styles in the form of themes, sketches, poems, and original stories.

FRE 4471 AS-LANG 6 (6,0)
Advanced French Cultural Studies Abroad: PR: FRE 2201 or equivalent, or C.I. Students will develop strong conversational skills at the third year level while studying French culture abroad. May be repeated for credit.

FRE 4500 AS-LANG 3 (3,0)
French Civilization and Culture: PR: FRE 3420. A survey analyzing development of key elements of French life: its historical, artistic, intellectual, scientific, and spiritual contributions to the world via readings, lectures, films, and other media. Conducted in French.

FRE 4503 AS-LANG 2 (2,0)
Quebecois Civilization: PR: 2 years of college level French or equivalent. An introduction to the main epochs and events in the history of the French civilization in North America with particular emphasis on Quebec.

FRE 4782 AS-LANG 2 (2,0)
Advanced French Phonetics and Diction: PR: 2 years of college level French or equivalent. Intensive exercises in French phonetics and diction with both prose and poetry with particular emphasis on difficulties for speakers of English.

FRF 4552 AS-LANG 3 (3,0)
Structural Analysis of Beckett's Watt: PR: ENC 1102. An intense study of textual criticism and explications and linguistic analysis of literature with the primary focus on the novel. Course will be taught in English.

FRF 3100 AS-LANG 3 (3,0)
Survey of French Literature I: PR: FRE 2201 or equivalent. Main literary currents and works from the Middle Ages through the 18th century.

FRF 3101 AS-LANG 3 (3,0)
Survey of French Literature II: PR: FRE 2201 or equivalent. Main literary currents and works of the 19th and 20th centuries.

FRF 3370 AS-LANG 3 (3,0)
Short Stories of 18th, 19th and 20th Centuries: PR: FRE 2201 or equivalent. Selected readings designed to increase reading speed and develop analytical abilities. Authors include: Voltaire, Maupassant, Flaubert, Camus, and others.

FRF 3740 AS-LANG 3 (3,0)
The French Literature of Canada: PR: FRE 2201 or equivalent. A survey of the French literature of Canada from the late 19th century to the present, with particular emphasis on the novel and short story.

FRF 3752 AS-LANG 3 (3,0)
French Caribbean Literature: PR: FRE 2201 or equivalent. Literature of the French speaking Caribbean from colonial times to the present, in French.

FRF 3760 AS-LANG 3 (3,0)

FRF 3770 AS-LANG 3 (3,0)
Francophone Literature: PR: FRE 2201. The literature of the Francophone world. Students will read, analyze and discuss literary works written in French.

FRF 4281 AS-LANG 3 (3,0)
20th Century French Novels: PR: FRF 3100 or FRF 3101 or equivalent. Contemporary French Novels. Will focus on post-war authors, both traditional and avant-garde, such as Bazin, Beckett, Butler, Camus, Mauriac, Malraux and Sarraute.

FRF 4310 AS-LANG 3 (3,0)
Seventeenth Century French Theatre: PR: FRF 3100. Corneille, Racine, and Moliere. A study of the lives and principal works of the authors.

FRF 4324 AS-LANG 3 (3,0)
20th Century French Drama: PR: FRF 3100 or FRF 3101 or equivalent, or C.I. Concentration on traditional and avant-garde theatre after WWII, such as the works of Beckett, Camus, Claudel, Claudel, Ionesco, and Sarrie. Different literary approaches will also be used.

FRF 4440 AS-LANG 3 (3,0)

FRF 4532 AS-LANG 3 (3,0)

FRW 4552 AS-LANG 3 (3,0)

FRW 4820 AS-LANG 3 (3,0)
Stylistics: PR: FRE 3420 or equivalent. An intense study of textual criticism. An examination of the relationship between language and literature; explications and linguistic analysis of literary texts.
2023, and ACG 2071. Understanding the interdependence of globalized world economy and similarities and dissimilarities between domestic and international business domains.

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 domains.

GEB 4111 BA-MAN 3(3,0) New Venture Finance: PR: Finance major, MAN 3025, FIN 3403, and MAR 3023. Provides hands-on processes for developing financial information necessary such as budgets and pro forma financial statements to start up a new venture.

GEB 4117 BA-MAN 3(3,0) Business Plan Preparation: PR: Management major, GEB 4111 and MAN 4002 with a 2.75 or better. Develop a new venture plan evolving from an original concept through a process that incorporates all the elements of a professionally written business proposal.

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.

GEB 4361 BA-FIN 3(3,0) Business in the International Environment: PR: Finance major, FIN 3403, MAR 3023, MAN 3025. Provides an overall understanding of the nature, magnitude, and importance of the international business sector.

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 business and provides students with knowledge about international trade.

GER 5941 BA-BUS 1.5(1,5,0) Professional Business Practicum: PR: Acceptance in the graduate program. The practicum is to provide a professional business work experience for students entering the MBA program without such experience.

GER 5954 BA-MAN 3(3,0) Entrepreneurship Field Project: PR: C.I. Technical and business students partner to provide feasibility assessments or business plans related to emerging business opportunities.

GEO 1200 ECS-CEE 3(3,0) Physical Geography: Basic physical elements of geography, including climate, landforms, soils, natural vegetation, minerals, and their integrated patterns of world distribution.

GEO 2370 ECS-CCE 3(3,0) Resources Geography: Analysis of basic principles and problems associated with development, use, conservation, and management of natural resources, with special emphasis on the United States.

GEO 3151 AS-LS 3(3,0) GIS for Environmental Studies: PR: CGS 1060C and BSC 201LC, or C.I. Geographic information systems (GIS) for understanding spatial environmental data.

GEO 3151L AS-LS 1(0,2) GIS for Environmental Studies Lab: PR: or CR: GEO 3151. Lab to complement GEO 3151. Practical experience in the use of geographic information systems (GIS).

GEO 3470 AS-POLS 3(3,0) World Political Geography: Analysis of factors which affect power relations among nations, including area, location, political styles, ethnic divisions, and the politics of energy.

GEO 4131C ECS-CIE 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.

GEO 4176C AS-LS 4(2,4) Advanced GIS Applications in Environmental Studies: PR: GEO 3151C. Use of GIS software for environmental applications such as conservation management.

GER 1005 AS-LANG 1(0,1) German Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, German songs, and opera libretti.

GER 1120 AS-LANG 4(4,1) Elementary German Language and Civilization I: Introduces the student to German culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language.

GER 1121 AS-LANG 4(4,1) Elementary German Language and Civilization II: PR: GER 1120 or equivalent. Continuation of GER 1120.

GER 1130H AS-LANG 4(4,1) Honors Elementary German Language and Civilization I: 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.

GER 1131H AS-LANG 4(4,1) Honors Elementary German Language and Civilization II: PR: GER 1130H or equivalent and permission of Honors. Continuation of GER 1130H, with honors-level content.

GER 2200 AS-LANG 3(3,1) Intermediate German Language and Civilization I: PR: GER 1121 or C.I. Development of language skills and cultural knowledge at the intermediate level.

GER 2201 AS-LANG 3(3,1) Intermediate German Language and Civilization II: PR: GER 2200 or equivalent. Continuation of GER 2200 with emphasis on German civilization.

GER 2210 AS-LANG 3(3,0) Intensive German Conversation: PR: GER 2211 or C.I. Practical use of the language, leading toward fluency and correctness in speaking.

GER 2240 AS-LANG 3(3,0) German Conversation: PR: GER 2201 or equivalent. Development of skills in conversation and comprehension through practice.

GER 2270 AS-LANG 6(6,0) Intermediate German Study Abroad: PR: GER 1121 or C.I. Intermediate German language and culture taught in the native environment.

GER 2271 AS-LANG 2(2,0) Modern German Civilization Abroad I: PR: One year of College-level German. Key elements of German life: its artistic, intellectual, scientific, and spiritual contributions to the world via guest lecturers, readings, films, and other media. In German.

GER 3100 AS-LANG 3(3,0) Germany - Past to Present: PR: GER 3760 or GER 3420 or equivalent. Cultural development that shaped modern Germany. Students will read and discuss selected texts from different literary periods and view the influences they had on culture and daily life. Course conducted in German.

GER 3272 AS-LANG 2(2,0) Modern German Civilization Abroad II: PR: GER 2201 or equivalent. Key elements of German life: its artistic, intellectual, scientific, and spiritual contributions to the world via guest lecturers, readings, films, and other media. In German.

GER 3420 AS-LANG 3(3,0) Intensive German Composition: PR: GER 2201 or equivalent. Development of skills in composition.

GER 3440 AS-LANG 3(3,0) Business German I: PR: GER 2200. Introduction to German business language and practices.

GER 3441 AS-LANG 3(3,0) Business German II: PR: GER 3440. Continuation of Business German I.

GER 3470 AS-LANG 6(6,0) Advanced German Study Abroad: PR: GER 2201. Advanced German grammar in the context of conversation and composition taught in the native environment.

GER 3760 AS-LANG 3(3,0) Advanced German Oral Communication: PR: GER 2201 or equivalent. Vocabulary building with systematic training in diction and locution, Speeches and oral presentations as well as production and delivery of real-life dialogues.

GER 3780 AS-LANG 3(3,0) German Phonetics and Diction: PR: GER 2240. The fundamental principles of German pronunciation.

GER 4422 AS-LANG 3(3,0) Advanced German Grammar: PR: GER 3760, or any other 3000 level German course. An accelerated grammar course designated for advanced students of the German language.

GER 4510 AS-LANG 3(3,0) Life and Culture in Nazi Germany: PR: C.I. Confrontation with the development of national socialist ideas and their realization in everyday life and culture. Given in German.

GER 4520 AS-LANG 3(3,0) Modern Germany: PR: Given in German. An introduction to the history of postwar Germany from the two Germanies to unification and today's Germany.

GEW 3100 AS-LANG 3(3,0) Survey of German Literature I: PR: GER 2201 or equivalent. Main literary currents and works from the Middle Ages through 19th Century Romanticism.

GEW 3101 AS-LANG 3(3,0) Survey of German Literature II: PR: GER 2201 or equivalent. Main literary currents and works from 19th Century Realism to the present.

GEW 3370 AS-LANG 3(3,0) Short Story: PR: GER 2201 or equivalent. German short prose works of the 19th and 20th centuries.

GEW 3480 AS-LANG 3(3,0) German Post-War Literature: PR: GER 2201. This course examines the works of German, Austrian and Swiss writers after World War II.

HFT 2403 RCHM-HOS 3(3,0) Hospitality Industry Financial Accounting: Basic understanding of financial accounting and specifically hospitality industry accounting concepts and procedures used in hotels, restaurants and clubs.

HFT 2500 RCHM-HOS 3(3,0) Hospitality and Tourism Marketing: PR: HFT 1000. The application of marketing concepts to the Hospitality and Tourism Industry. Special emphasis on marketing planning and strategic marketing.

HFT 2750 RCHM-HOS 3(3,0) The Event Industry: Overview of meetings, conventions, special events and exhibitions including the roles of organizations and people involved in the businesses that comprise this industry.

HFT 3261 RCHM-HOS 3(3,0) 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.

HFT 3273 RCHM-HOS 3(3,0) Principles of Resort Timesharing: PR: HFT 1000 and junior standing or C.I. Principles of resort timeshare ownership.

HFT 3285 RCHM-HOS 3(3,0) International Restaurant Corporation Management: PR: HFT 3261. The specific principles of managing a restaurant corporation in the international foodservice marketplace.

HFT 3313 RCHM-HOS 3(3,0) Hospitality Physical Plant Management: PR: Junior standing. Analysis of operational problems related to the physical plant and structure of enterprises in the hospitality industry.

HFT 3353 RCHM-HOS 3(3,0) Golf Planning & Operations: PR: HFT 2359. Customer relations concepts, an effective golf instruction program, and characteristics of effective merchandising & inventory procedures.

HFT 3354 RCHM-HOS 3(3,0) Agronomy for Golf Course Management: PR: HFT 3353. Primary roles and responsibilities of the golf course superintendent.

HFT 3355 RCHM-HOS 3(3,0) Golf Planning & Operations II: PR: HFT 3353. Merchandising and inventory control, golf swing philosophy and leadership models.

HFT 3374 RCHM-HOS 3(3,0) Multi Media Applications in Exhibitions: PR: HFT 1000, HFT 2750, or C.I. The management of the audio and visual process of a large exhibition.

HFT 3431 RCHM-HOS 3(3,0) Hospitality Industry Managerial Accounting: PR: HFT 2403 and junior standing or C.I. Presentation, interpretation, and analysis of internal and external hospitality industry financial reports affecting management decisions using hospitality industry systems of accounting.

HFT 3444 RCHM-HOS 3(3,0) Hospitality Information Systems: PR: CGS 2100, HFT 2254, and HFT 2601, 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.

HFT 3471 RCHM-HOS 3(3,0) Hospitality Enterprises I: PR: Financial Accounting, Managerial Accounting, Computer Competency, Junior standing. Acquaints students with presentation, interpretation and analysis of hotel financial reports. Presents hotel operations cost controls. Explores hospitality MIS.

HFT 3511 RCHM-HOS 3(3,0) Convention and Conference Sales: PR: HFT 2750, HFT 2500 and junior standing or C.I. In-depth understanding of the sales process for the convention market. Covers the people, methods, materials and equipment needed.

HFT 3515 RCHM-HOS 3(3,0) Reservations Sales & Marketing: PR: HFT 1000, HFT 2500 or C.I. Provides insight to all aspects of planning, forming and measuring room sales activities. Focus will be to manage all distribution channels to maximize profitability.

HFT 3540 RCHM-HOS 3(3,0) Guest Services Management I: PR: Junior standing or C.I. The study of making decisions from the guest’s point of view in the hospitality industry.

HFT 3574 RCHM-HOS 3(3,0) Food Service Marketing Advertising and Promotion Management: PR: HFT 2500 and HFT 2601. Covers pricing, promotion, menu and product development.

HFT 3600 RCHM-HOS 3(3,0) Legal Environment in the Hospitality and Tourism Industry: PR: C.I. Principles of law as related to the Hospitality/Tourism Industry.

HFT 3610 RCHM-HOS 3(3,0) Law and Restaurant Management: PR: HFT 3600 and HFT 2601. Emphasis on regulatory, case and administrative law. Compliance, prevention, and remedial actions are stressed.

HFT 3654 RCHM-HOS 3(3,0) Franchising in the Restaurant Industry: PR: Restaurant Management Core or C.I. Addresses the legal requirements for franchising, contract rates, responsibilities, size, structure, and history.

HFT 3700 RCHM-HOS 3(3,0) Tourism Management: PR: HFT 1000 and junior standing or C.I. Analysis of the tourism phenomenon in contemporary societies. An exploration of major concepts about tourism as an inter-linked industry composed of many sectors within both the private and public sectors.

HFT 3741 RCHM-HOS 3(3,0) Meeting Management: PR: HFT 4752 and HFT 4754. The process of meeting planning, setting objectives to analyzing the success of the event.

HFT 3757 RCHM-HOS 3(3,0) Event Management: PR: HFT 1000 and junior standing or C.I. Reviews the role and scope of events in the hospitality industry, as well as the process of planning, organizing, and managing events. Materials & Supply fee: $37.00

HFT 3770 RCHM-HOS 3(3,0) Cruise Line Operations and Management: PR: HFT 1000 and junior standing or C.I. Understanding of cruise company operations and the management, shipboard organization and delivery of the cruise product to the guest.

HFT 3784 RCHM-HOS 3(3,0) Amusement Technology: PR: HFT 1000, HFT 4755. Exploration of various technologies utilized by the leisure-based amusement industry. Includes amusement devices, operational and IT software packages as well as ride and show systems.

HFT 3785 RCHM-HOS 3(3,0) Management of Gaming Enterprises: PR: Junior level standing, an in-depth study of gaming-based organizations including cruise ships, Indian reservation casinos, and others. The history and development of gaming organizations, the economics, social, and cultural impact of gaming and managerial challenges and opportunities in the industry.

HFT 3802 RCHM-HOS 3(3,0) Catering Management: PR: HFT 1000, HFT 2750. Catering sales and operations. Emphasis on logistics, market segments, and service. Materials & Supply 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.

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.

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.

HFT 3933 RCHM-HOS 1(1,0) Distinguished Lectures in Hospitality Management: PR: HFT 1000, Junior standing. First hand introduction to hospitality leaders, their perspectives on the segments they represent, and the breadth of those segments. Graded S/U.

HFT 3949 RCHM-HOS 1.5(0,1.5) Cooperative Education: Provides paid, pre-professional work experience related to the students’ major while they continue to attend school. Requires achievement of major-related learning objectives.

HFT 4250C RCHM-HOS 3(3,0) Hospitality Operations: PR: C.I. An integration of lodging and food service operations providing students with a comprehensive knowledge of these related content areas; food service lab component.

HFT 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.

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.

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.

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.

HFT 4274 RCHM-HOS 3(3,0) Vacation Ownership Resort Management: PR: HFT 1000, HFT 3273, HFT 4522 or C.I. Comprehensive analy-
sis of applied theories, principles, and techniques used in the management of vacation resorts.

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.

HFT 4277 RCHM-HOS 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.

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.

HFT 4284 RCHM-HOS 3(3,0) Training and Employee Performance in the Foodservice Industry: PR: HFT 2220; HFT 3540, HFT 4266; HFT 4386; HFT 4268; HFT 4345; FSS 3124; FSS 4135. Teaching and training methodologies relative to the service positions in a restaurant. Emphasizes training techniques, guest interaction, and assessment of service performance.

HFT 4286 RCHM-HOS 3(3,0) Hospitality Communications: PR: HFT 1000; HFT 2220; FSS 2221C; HFT 2254; HFT 2500; HFT 3960; HFT 2750; HFT 2403; HFT 3444; HFT 3540. Communication exchanges in the hospitality industry for effective presen-
tations, conflict resolution, and report writing. Emphasis on inter departmental dependence by managers in hospitality enterprises in the areas of reading, writing, speaking, and listening.

HFT 4294 RCHM-HOS 3(3,0) Hospitality Enterprises Management II: PR: C.I. Planning and implementing strategies for managing the human resource in the hospitality/tourism industry.

HFT 4295 RCHM-HOS 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.

HFT 4298 RCHM-HOS 3(3,0) Hospitality Business Consulting: PR: HFT 1000 and junior standing or C.I. A systematic approach to Hospitality Management. Students apply their cumulative knowledge in an active learning environment in a small hospitality operation.

HFT 4343 RCHM-HOS 3(3,0) Hospitality Facilities Planning and Design: PR: HFT 1000, HFT 2254 and junior standing; or C.I. Principles of facility planning, layout and design for dining, kitchen, guest room, lobby, and service areas.

HFT 4358 RCHM-HOS 3(3,0) Golf Course Facility Design: PR: HFT 3355. Golf course and golf facility design from a functional perspective and from a perspective of form.

HFT 4375 RCHM-HOS 3(3,0) Advanced Trade Show Management: PR: HFT 4754 or C.I. Trade show installation, floor management and dis-

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 think-
ing in hospitality organizations.

HFT 4425 RCHM-HOS 3(3,0) Financial Analysis for Restaurant Managers: PR: HFT 2403, HFT 3431, and HFT 3261. Topics of unit level eco-
nomics, budgeting, valuation of restaurant enterprises, ownership models, franchising finance, and securing access to capital through debt and equity markets.

HFT 4432 RCHM-HOS 3(3,0) Hospitality Industry Auditing: PR: HFT 3431 Hospitality Industry Managerial Accounting. Provides basic funda-
mentals of eliminating fraud and saving money through proper internal controls in the hospitality industry.

HFT 4442 RCHM-HOS 3(3,0) Vacation Ownership Reservations and Database Systems: PR: HFT 1000, HFT 3273, HFT 4524 or C.I. Tactics and strategies necessary for owner exchange, information transmittal, and financial reporting.

HFT 4453 RCHM-HOS 3(3,0) Food, Beverage, and Labor Cost Controls: PR: HFT 3431 Hospitality Industry Managerial Accounting. Provides students with basic fundamentals of food, beverage, and labor cost control systems in the hospitality industry.

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.

HFT 4473 RCHM-HOS 3(3,0) Hotel Development Analysis: PR: HFT 3431 and junior standing or C.I. Review of methodological operation, financial, and marketing aspects of analyses for hotel develop-
ment projects.

HFT 4522 RCHM-HOS 3(3,0) Vacation Ownership Resort Sales Tactics and Strategies: PR: HFT 1000, HFT 3273 or C.I. Sales tactics and corporate strategies employed in the sales and mar-
keting of vacation ownership properties.

HFT 4532 RCHM-HOS 3(3,0) Managing the Employee Experience in the Theme Park and Attraction Industry: PR: HFT 4755 and junior standing or C.I. Managing staffing needs, supervision, commu-
nication, legal compliance, and retention in the theme parks and attraction industry.

HFT 4645 RCHM-HOS 3(3,0) Restaurant Real Estate, Site Selection, and Modeling.: PR: Hospitality and Restaurant Management Cores or C.I. Explains the management systems for finding, evaluating, securing, and developing dynamic restaurant real estate locations.

HFT 4717 RCHM-HOS 3(3,0) Hospitality Operations II: PR: Junior Standing. A survey of tourism, travel agency, airline, convention and trade show operations from both the U.S. and international per-
pective.

HFT 4722 RCHM-HOS 3(3,0) Travel Agency Management: PR: Junior Standing. The trends operation management procedures and practices of travel agents. Emphasis on tools utilized in agency opera-
tions.

HFT 4735 RCHM-HOS 3(3,0) Tourism Geography: PR: HFT 3700 and junior standing or C.I. A seminar discussing the main geographical tourism destinations in U.S. and the World.
HFT 4866C  RCHM-HOS 3(3,1)  Exploring Wines of the World: PR: HFT 1000; HFT 3261; and Age of 21; or C.I. Using senses to evaluate wines, methodology of tasting and evaluating wines, growing, processing, and production of grape varieties used in making wine. Materials & Supply fee: $45.00

HFT 4894  RCHM-HOS 3(3,0)  International Gastronomy: PR: FSS 2221C, HFT 3700, and C.I. A world view of cultures and cuisine that includes an international travel component.

HFT 4949  RCHM-HOS 1.5(0,1-5)  Cooperative Education: Provides paid, pre-professional work experience related to the students’ major while they continue to attend school. Requires achievement of major-related learning objectives.

HIM 3006  HPA-HIM 3(3,0)  Foundations of Health Information Management (HIM): PR: Acceptance into upper-division limited access HIM program or C.I. Foundation of profession; release of information; record analysis; numbering and filing systems; standards for long-term care; ambulatory care; and mental health records.

HIM 3116C  HPA-HIM 4(3,2)  Health Record Organization and Management: PR: HIM 3006C. Nomenclatures/classification systems; health and vital statistics; data analysis and presentation; indexing; computer abstracting; accrediting and approving agencies; medical staff organization.

HIM 3806L  HPA-HIM 4(0,8)  Professional Practice Experience I: PR: Admission to HIM program. CR: HIM 3006, 351L and HIM 3116C. Interdepartmental experience; master patient index; numbering and filing systems; assembly and analysis; incomplete record control; record storage; retention and retrieval; and release of information.

HIM 3816L  HPA-HIM 4(0,8)  Professional Practice Experience II: PR: HIM 3006L; and and CR: HIM 4226C, HIM 4252C, HIM 4344, and HIM 4506. Transcription; coding; quality improvement; risk management; human resources; statistics; accrediting and licensing; revenue management cycle; medical staff organization.

HIM 4226C  HPA-HIM 5(3,4)  Coding Procedures I: PR: HSC 4550, HSC 355L, or C.I. Principles and mechanics of coding systems for inpatient health information retrieval; ICD-9-CM; DRGs; encoders.

HIM 4256C  HPA-HIM 3(2,2)  Coding Procedures II: PR: HIM 4226C or C.I. Principles and mechanics of coding systems for outpatient health information retrieval; ICD-9-CM; HCPCS; APGs; encoders.

HIM 4344C  HPA-HIM 4(3,2)  Health Information Department Management: PR: HIM 3116C; MAN 3025. Personnel administration; budgeting; forms analysis; work distribution and simplification; equipment selection; ergonomics and space planning.

HIM 4506  HPA-HIM 3(2,2)  Quality Management: PR: HIM 3116C, HIM 4226C. CR:HIM 4256C. Principles and mechanics of quality improvement; utilization review; case management and risk management.

HIM 4656C  HPA-HIM 3(2,2)  Health Information Management Systems: PR: HSA 4191, HIM 4226C. Vitalization of information systems, management and patient care in the health care industry, systems analysis, system design and project management concepts.
problems under uncertainty. The role of informatics and development of a general systematic approach to solving
issues, including the institutional health care available. Focus is on modern civilizations and their contributions to the Global Village. Primary sources (in translation) are emphasized.

HUM 2230H AS-PHIL 3(3,0)
Honors Humanistic Tradition II: 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.

HUM 3251 AS-PHIL 3(3,0)
Contemporary Humanities: PR: ENC 1102 or C.I. Multicultural study of Philosophy and the arts of the 20th century.

HUM 3255 AS-PHIL 3(3,0)
Modern Humanities: PR: ENC 1102 or C.I. Multicultural study of Philosophy and the arts of the modern period.

HUM 3320 AS-PHIL 3(3,0)
Contemporary Multicultural Studies: PR: HUM 2230, Junior standing, or C.I. Studies the confluence of diverse cultures making up North America in the Information Age, focusing on complete primary sources in philosophy, literature, visual arts and music.

HUM 3401 AS-PHIL 3(3,0)
Asian Humanities: PR: HUM 2230 or C.I. An interdisciplinary survey of the cultures of India, China, and Japan, concentrating on their traditional art, literature, religion, philosophy, and music.

HUM 3417 AS-PHIL 3(3,0)
Hindu Thought and Culture: PR: HUM 2230, REL 2300, or C.I. A survey of the development of Hindu thought and culture from vedic times to the modern age, with emphasis on religion, literature, philosophy, art and music.

HUM 3419 AS-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.

HUM 3419H AS-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.

HUM 3431 AS-PHIL 3(3,0)
Ancient Humanities: PR: HUM 2230 or C.I. Development of Ancient Greek thought and culture with emphasis on philosophy, religion, literature and art.
HUM 3435 AS-PHIL 3(3,0)
Medieval Humanities: PR: ENC 1102 or C.I. Development of Medieval thought and culture with emphasis on Philosophy, Religion, Literature and Art.

HUM 3552 AS-PHIL 3(3,0)
Christian Thought: PR: ENC 1102. Christian thought from 4th century to present, concentrating on human nature, social justice, the state, war, and attitudes toward women.

HUM 3553 AS-PHIL 3(3,0)
Moses, Jesus and Muhammad: PR: HUM 2230, REL 2300, or C.I. Deals with the main themes of Judaism, Christianity, and Islam as found in the teachings of Moses, Jesus, and Muhammad.

HUM 3800 AS-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.

HUM 4301 AS-PHIL 3(3,0)
The Classical Ideal: PR: HUM 2211 and HUM 2230 or C.I. The search for order and form in the arts of various times and cultures. Concerns reason, structure, objectivity, harmony. Open to all Juniors and Seniors.

HUM 4303 AS-PHIL 3(3,0)
The Spiritual Ideal: PR: HUM 2211 and HUM 2230 or C.I. Concerns works of art reflecting spiritual insight or the spiritual quest; mystical impulses contrasted to ethos and pathos.

HUM 4330 AS-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.

HUM 4393 AS-PHIL 1(1,0)
Portfolio: PR: Last semester as Humanities major. Presentation of a representative sampling of student's best undergraduate work, with appropriate revisions, including a cover narrative indicating development of humanistic knowledge and skills. Graded S/U.

HUM 4516 AS-PHIL 3(3,0)
Religion and the Arts: PR: One of: HUM 2211, HUM 2230, ARH 2050, ARH 2051, or REL 2300. Art, music, dance, and ritual practices in religious traditions, with emphasis on the contemporary.

HUM 4554 AS-PHIL 3(3,0)
Religious Quest and Human Dilemma: PR: ENC 1102 or C.I. Nature of the sacred, death, and future life and how they relate to human existence.

HUM 4903 AS-PHIL 3(3,0)
Senior Research Seminar: PR: Senior standing and Humanities major. Capstone course on research, developing effective oral and written communication skills.

HUM 5802 AS-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

HUM 5803 AS-PHIL 3(3,0)
Theories and Methods of the Humanities: PR: Senior undergraduate standing and at least one of the following: HUM 3251, HUM 3320, or PHI 4808 or Graduate Standing. Approaches, concepts, methods, and theoretical issues in the Humanities with an emphasis on critical analysis of diverse disciplinary and interdisciplinary theories and methods.

HUM 2002 AS-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.

HUM 3111 AS-HP 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.

HUM 3101 AS-HP 3(3,0)
Nutrition Concepts and Issues in the Food Service Industry: PR: HFT 4280 or C.I. Introduces basic nutrition concepts. Discusses nutrition concepts and concerns in relation to food preparation and service in the hospitality industry.

HUM 5937 AS-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.

IDH 1040H BHC-HON 2(2,1)
Honors Foundation of Leadership: PR: Permission of Honors. An honors symposium that presents academic leaders and their research or artistic achievements. Students are organized in groups to discuss leadership principles and applications. Graded S/U.

IDH 1921H BHC-HON 1(2,0)
Honors Symposium: Readings, lectures and discussions covering aspects of scholarship, artistic, and other creative efforts.

IDH 4030H BHC-HON 1(3,0)
Honors Windows To The World: PR: Permission of Honors and IDH 1921H, enrolled in Accelerated Pre-med Program; or C.I. Students will cultivate an active sense of the liberal arts and sciences as they prepare for prestigious scholarships and graduate school. Graded S/U. May be repeated for credit.

IDS 1040C AS-LS 2(1,1)
Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Arts & Sciences providing a foundation of leadership, scholarship, and service regarding disciplines in the college.

IDS 2041C AS-CAS 2(1,1)
LEAD Colloquium: PR: Must have completed 2 of the following with a grade of B or better: IDS 1040C, GEB 1091C, HSC 1511C, EGN 1036C, EDG 1005, or EDF 1930C. Experiential leadership in an appropriate setting with the LEAD Scholars Program.

IDS 3150 AS-LS 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.

IDS 3701C AS-DIG 3(2,2)
Internet Software Design: PR: DIG 2000, COP 2500C, COP 3330 and a minimum grade of "B" 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 multimedia objects for storytelling and e-commerce.

IDS 4156 AS-LS 3(3,0)
Solving Environmental Problems: PR: IDS 3150, GEO 3125C, GEO 4167C and PUP 3203, or C.I. Capstone course in Environmental Studies focusing on how environmental dilemmas are addressed.

IDS 4315 AS-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.

IDS 4703 AS-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.

IDS 4728 AS-DIG 3(0,0)
Unix for Graphics Production: PR: COT 3223 and DIG 3525 or C.I. Unix operating system for the management of complex graphical production processes in animation and film post-production.

IDS 4786C AS-DIG 4(3,3)
Production Software Workshop: PR: COT 3260 and DIG 4204, or C.I. Generating and manipulating digital imagery. Techniques, mechanics, underlying representations and data; intros to scripting, plug-ins, procedural models.

IDS 5145 ECS-ECS 3(3,2)
Interdisciplinary course in simulation: PR: Calculus, matrix algebra, probability & statistics, high level programming language. An interdisciplinary course on simulations with hands-on experience in discrete event modeling, continuous modeling & shared virtual world. May be repeated for credit.

IDS 5171C UCF-IDS 3(2,2)
Introduction to Modeling and Simulation: PR: STA 2023 or equivalent. Introduction to the theory and practice of modeling and simulation with emphasis on multidisciplinary scientific underpinnings.

IDS 5179 UCF-IDS 3(3,0)
Quantitative Aspects of Modeling and Simulation: PR: MAC 2241 or equivalent. Introduction to matrix algebra and other discrete mathematics topics for modeling and simulation applications.

IDS 5787 AS-DIG 3(3,0)
Design for Media: PR: Graduate standing or C.I. Theories and practices of interactive design for digital media content.

IDS 5788 AS-DIG 3(3,0)
Digital Media Development: PR: IDS 5787 or C.I. Continuation of IDS 5787. Students will begin developing projects specified by design documents from previous course.

IDS 5789 AS-DIG 3(3,0)
Interactive Media Design: PR: DIG 4716L and DIG 3280C 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.

IDS 5790 AS-DIG 3(3,0)
Digital Forensics: PR: CGS 5133 (Computer Forensics I) or C.I. Application of digital scientific techniques to solve information assurance, forensic and legal problems.

IDS 5795C AS-DIG 3(3,2)
INP 3004 AS-PSYCH 3(3,0)
Industrial/Organizational Psychology: PR: PSY 2012 or C.I. Psychological theories and principles applicable to problems in industrial organizations.

INP 3141C AS-PSYCH 1-3(0,3-9)
Advanced Applied Psychology: PR: PSY 2012 and CI. Course will explore application of psychological knowledge to clinical, experimental, industrial, or educational settings. Supervised laboratory experience is required. May be repeated for credit. Graded SU.

INP 3951 AS-PSYCH 3(0,10)
Industrial/Organizational Field Work: PR: CI. An opportunity for advanced undergraduate psychology majors to become involved in the application of I/O psychology to local organizations.

INP 4252 AS-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.

INP 4313 AS-PSYCH 3(3,0)
Organizational Psychology: PR: INP 3004. Analysis of the psychological principles underlying individual and group behavior in an organizational setting. Topics include group dynamics, leadership and participation, interpersonal behavior, and organization development.

INP 5892 AS-PSYCH 3(3,0)
Human-computer Interface (HCI) design: A team approach: PR: Graduate status or senior standing or C.I. Interdisciplinary approach to human-computer interface design, including behavior, engineering, computer science, and instructional aspects. Tools and techniques for team development and the evaluation of software for usability.

INR 2002 AS-POLS 3(3,0)
International Relations-Theory and Practice: Analysis of the fundamental principles and factors affecting international relations and their application to contemporary global developments.

INR 3016 AS-POLS 3(3,0)
Global Political Issues: PR: POS 2041 or C.I. Current global political topics from political development and income gap to gender issues and environmental challenges.

INR 3253 AS-POLS 3(3,0)
International Politics of Africa: PR: Junior standing or C.I. The broad structures and processes of international politics and foreign policy in Africa, with particular attention on U.S.-African relations.

INR 4011 AS-POLS 3(3,0)
Policies of Globalization: PR: INR 2002 or POS 2041 or C.I. Major political causes and consequences of globalization.

INR 4030 AS-POLS 3(3,0)

INR 4035 AS-POLS 3(3,0)
International Political Economy: The international politics of regional and global economic interdependence, with emphasis upon North-South relations, the New International Economic Order, OPEC, and multinational corporations.

INR 4060 AS-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.

INR 4064 AS-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.

INR 4074 AS-POLS 3(3,0)
Immigration Policy: PR: POS 2041, Junior standing or C.I. Analysis of the complex subject of immigration, including U.S. and comparative immigration policy, illegal immigration, alien smuggling, and statelessness and their political/security impact.

INR 4075 AS-POLS 3(3,0)

INR 4076 AS-POLS 3(3,0)
Global Drug Policy: PR: POS 2041, Junior standing or C.I. International drug control issues, policy formulation and enforcement, impact of government and political economic systems on drug policy. Selected Latin American and Third World cases.

INR 4085 AS-POLS 3(3,0)
Women, Gender, and Globalization: PR: Junior standing, Feminist and gender perspectives in International Relations, Globalization, and International Political Economy.

INR 4102 AS-POLS 3(3,0)
American Foreign Policy: Development of American foreign policy, with emphasis on the role and policies of the United States in the contemporary world.

INR 4104 AS-POLS 3(3,0)
Topics and Cases in American Foreign Policy: PR: POS 2041, Jr. standing or C.I. General or intensive analysis of problems and issues of U.S. foreign policy. Issues may include September 11th, homeland security, counter-terrorism, policymaking and decision-making and intelligence.

INR 4114 AS-POLS 3(3,0)
American Security Policy: PR: POS 2041, Junior standing, or C.I. Study of the evolution of American security policy since World War II, including consideration of the social and political costs involved and means of control.

INR 4115 AS-POLS 3(3,0)
Strategic Weapons and Arms Control: Control of strategic weapons and their impact. Technological and policy aspects, including nuclear proliferation.

INR 4224 AS-POLS 3(3,0)
Contemporary International Politics of Asia: Examinations of the foreign policies of major and secondary powers in Asia, with particular attention to China and Japan.

INR 4225 AS-POLS 3(3,0)
The Vietnam War: Background of events leading to America’s involvement in Indochina, the course of the Vietnam War, and the lessons which that war imparted.

INR 4243 AS-POLS 3(3,0)
International Politics of Latin America: Study of contemporary U.S.-Latin American relations, interAmerican politics and organization, and the role of Latin America in the world.

INR 4304 AS-POLS 3(3,0)
Issues in International Public Policy: PR: POS 2041, Junior standing or C.I. Endogenous and exogenous variables, including policy analysis and decision-making, which influence select international public policy issues.
UCF Courses and Descriptions

Introduction to Information Systems Management: PR: CGS 2100 or CGS 1060, 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.

ISM 3013 BA-MIS 3(3,0) 
Introduction to Information Systems Management: PR: CGS 2100 or CGS 1060, and MAC 1105 or MGF 1106, and ISM 3011. 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.

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.

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.

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. Basic electronic commerce and technologies. Students are required to develop an e-commerce related business plan and build a prototype Website using a tool.

ISM 3501 BA-MIS 3(3,0) 
Essentials of Electronic Commerce: PR: CGS 2100C or CGS 1060C, 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.

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.

ISM 3530 BA-MAN 3(3,0) 
Quality & Productivity Management: PR: MIS major or minor, GES 303I and MAN 302S. An examination of the principles and theories of quality and operations management in manufacturing and service organizations.

ISM 4090 BA-MIS 3(3,0) 

ISM 4113 BA-MIS 3(3,0) 
Information Systems Analysis and Design: PR: MIS major or minor, ISM 4212. ISM 3005. Structured approaches to the development of computer-based information systems in business.

ISM 4114 BA-MAN 3(3,0) 
Advanced Business Application Development: PR: MIS major or minor, ISM 3005, ISM 4212, CR: ISM 4220, ISM 4113. Theory and practice in developing client-server applications for business and use of modern development tools. Includes principles of multituser, multitier application design and implementation.

ISM 4130 BA-MIS 3(3,0) 

ISM 4133 BA-MIS 6(6,0) 
Information Systems Analysis, Design, and Implementation: PR: MIS major or minor, ISM 3005, ISM 4212. Same as ISM 4133 and ISM 4130. Comprehensive coverage of analysis, design, and implementation of information systems.

ISM 4122 BA-MIS 3(3,0) 
Database Management: PR: MIS major or minor, ISM 3005 and ISM 3011. Design and implementation of relational database in organizations.

ISM 4220 BA-MIS 3(3,0) 
Distributed Information Systems: PR: MIS major or minor, ISM 3005 and ISM 3011. Computer networking and communications. Managerial and technical dimensions of client/server and other modes of distributed and decentralized computing in business. Distributed database design and implementation.

ISM 4226 BA-MAN 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.

ISM 4238 BA-MAN 3(3,0) 
Business Programming/OOP: PR: MIS major or minor, ISM 3005, ISM 4212, or C.I. This course will provide an introduction to object-oriented programming (OOP) and object-oriented design (OOD).

ISM 4300 BA-MIS 3(3,0) 
Technology Management: PR: MIS major or minor, ISM 4213. MAN 302S, Junior Standing. The strategy and theory of the design, development, adoption, and management of new information technologies.

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.

ISM 4431 BA-MAN 3(3,0) 
Computer-Based Operations Management: PR: MIS major or minor, ISM 3011. Application of production planning and control theories and Management Information Systems concepts to an integrated, computerized, real-world production environment.

ISM 4480 BA-MIS 3(3,0) 

ISM 4941 BA-MIS 3(0,3) 
Internship in MIS: PR: ISM 3005, ISM 4212, and ISM 3011, consent of department chair. Provides student with supervised, management information system-related work experience in a sponsoring organization. Serves department for information.

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.

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.

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.

ISM 5127 BA-MIS 3(3,0) 
Concepts of Database Design and Administration: PR: ISM 5020 and admission 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.

ISM 5219 BA-MIS 3(3,0) 
Business Intelligence Systems: PR: All BS and MIS technical courses required for admission to the MSMS program. Modern paradigms in data analysis. The detection of useful patterns and relationships in databases.

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.

ISM 5315 BA-MIS 3(3,0) 
Information Systems Project Management: PR: Graduate standing or C.I. This course introduces students to the concept of project management including project scope, cost, time and quality.

ISM 5507 BA-MIS 3(3,0) 
Electronic Agora: PR: Admission to graduate study or MIS major or minor in term of graduation. Broad exploration of internet tools as vehicles for communication, interaction, decision-making, and community formation. May include issues in ethics, privacy, security, design, implementation, and applications.

ISS 4155 AS-COMM 3(3,0) 
Science Fiction and the Social Sciences: A multimedia examination of note-worthy science fiction from the Social Science perspective.

ITA 1005 AS-LANG 1(1,0) 
Italian Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, Italian songs, and opera libretti.

ITA 1120 AS-LANG 4(4,1) 
Elementary Italian Language and Civilization I: Introduces the student to Italian culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language.

ITA 1121 AS-LANG 4(4,1) 
Elementary Italian Language and Civilization II: PR: ITA 1120 or equivalent. Continuation of ITA 1120.

ITA 2200 AS-LANG 3(3,0) 
Intermediate Italian Language and Civilization I: PR: ITA 1121 or equivalent. Designed to continue development of language skills at intermediate level, plus a review of grammar, study of syntax, idiomatic expression, extensive readings, and further study of Italian culture.

ITA 2201 AS-LANG 3(3,0) 
Intermediate Italian Language and Civilization II: PR: ITA 2200 or equivalent. Designed to continue development of language skills at intermediate level, plus a review of grammar and study of syntax, with emphasis on Italian civilization.

ITA 2210 AS-LANG 3(3,0) 
Intensive Italian Conversation: PR: One year of Italian or
### UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Program</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITA 2249</td>
<td>AS-LANG</td>
<td>Italian Conversation</td>
<td>PR: ITA 2201 or equivalent. Development of skills in conversation and comprehension with an introduction to Italian culture.</td>
</tr>
<tr>
<td>ITA 3420</td>
<td>AS-LANG</td>
<td>Italian Composition</td>
<td>PR: ITA 2201 or equivalent. Development of skills in composition, with an introduction to Italian culture.</td>
</tr>
<tr>
<td>ITA 3440</td>
<td>AS-LANG</td>
<td>Italian for Business</td>
<td>PR: ITA 2200. Italian language for business purposes.</td>
</tr>
<tr>
<td>ITA 3760</td>
<td>AS-LANG</td>
<td>Advanced Italian Oral Communication</td>
<td>PR: ITA 2201 or equivalent. Vocabulary building with systematic training in diction and locution. Speeches and oral presentations as well as production and delivery of real-life dialogues.</td>
</tr>
<tr>
<td>ITA 4820</td>
<td>AS-LANG</td>
<td>Italian Syntax Abroad</td>
<td>PR: ITA 3420. A study of Italian Syntax for advanced students of Italian.</td>
</tr>
<tr>
<td>ITT 3480</td>
<td>AS-LANG</td>
<td>Study Abroad: Italian Literature in Translation</td>
<td>PR: C.I. Main literary tendencies and authors of Italian literature, taught in the native environment.</td>
</tr>
<tr>
<td>ITT 4956</td>
<td>AS-LANG</td>
<td>Study Abroad: Modern and Contemporary Italian Culture</td>
<td>PR: Junior standing and C.I. Modern and contemporary Italian culture in the natural environment.</td>
</tr>
<tr>
<td>ITW 3100</td>
<td>AS-LANG</td>
<td>Survey of Italian Literature I</td>
<td>PR: ITA 2201. Main currents and writers in Italian literature from the 12th through the 15th centuries.</td>
</tr>
<tr>
<td>ITW 3101</td>
<td>AS-LANG</td>
<td>Survey of Italian Literature II</td>
<td>PR: ITA 2201. Main currents and writers in Italian literature from the 15th century to the present.</td>
</tr>
<tr>
<td>ITW 3600</td>
<td>AS-LANG</td>
<td>Dante’s Inferno</td>
<td>PR: ITW 3100. An in-depth study of Dante’s Inferno. In English.</td>
</tr>
<tr>
<td>JOU 3004</td>
<td>AS-COMM</td>
<td>History of American Journalism</td>
<td>Development of mass media, leading innovators, and the medias role in the nation’s history.</td>
</tr>
<tr>
<td>JOU 3101</td>
<td>AS-COMM</td>
<td>Advanced Reporting</td>
<td>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. Materials: $15.00.</td>
</tr>
<tr>
<td>JOU 3200</td>
<td>AS-COMM</td>
<td>Editing I</td>
<td>PR: Journalism major or Magazine Writing minor, meet Grammar Proficiency standard, and a minimum grade of “C” (2.0) in JOU 2100C. Editing copy, writing headlines, managing newsroom operations. Materials &amp; Supply fee: $15.00.</td>
</tr>
<tr>
<td>JOU 3202</td>
<td>AS-COMM</td>
<td>Editing II</td>
<td>PR: Journalism major or Magazine Writing minor, and a minimum grade of “C” (2.0) in JOU 2100C. Practical aspects of editing. Principles of design. Practice in editing and layout. Materials &amp; Supply fee: $15.00.</td>
</tr>
<tr>
<td>JOU 3510</td>
<td>AS-COMM</td>
<td>Magazine Publishing</td>
<td>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.</td>
</tr>
<tr>
<td>JOU 4181</td>
<td>AS-COMM</td>
<td>Public Affairs Reporting</td>
<td>PR: Journalism major, and a minimum grade of “C” (2.0) in both JOU 2100C and JOU 3101. Reporting on city, county and state government. Materials &amp; Supply fee: $15.00.</td>
</tr>
<tr>
<td>JOU 4224</td>
<td>AS-COMM</td>
<td>Magazine Editing and Production</td>
<td>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.</td>
</tr>
<tr>
<td>JOU 4300</td>
<td>AS-COMM</td>
<td>Feature Writing</td>
<td>PR: Magazine major or Magazine Writing minor, Writing reviews of movies, plays, television programs, concerts, books, and other cultural works.</td>
</tr>
<tr>
<td>JOU 4306C</td>
<td>AS-COMM</td>
<td>Critical Writing</td>
<td>PR: Journalism major or Magazine Writing minor. Writing reviews of movies, plays, television programs, concerts, books, and other cultural works.</td>
</tr>
<tr>
<td>JOU 4308</td>
<td>AS-COMM</td>
<td>Freelance Writing</td>
<td>PR: Journalism major or Magazine Writing minor. A study of the techniques and procedures of freelance writing, including the preparation of several manuscripts.</td>
</tr>
<tr>
<td>JOU 4340C</td>
<td>AS-COMM</td>
<td>On-line Journalism I</td>
<td>PR: A minimum grade of “C” (2.0) in JOU 2100C, and PUR 3100. The development, impact and problems of using the Internet as a journalistic tool. Students will write and design news for the Web. Materials &amp; Supply fee: $15.00.</td>
</tr>
<tr>
<td>JPN 1120</td>
<td>AS-LANG</td>
<td>Elementary Japanese Language and Civilization I</td>
<td>PR: ENC 1102, or equivalent proficiency. Communication in conversational Japanese to enhance knowledge of the sound changes, speech functions and styles in verbal discourse.</td>
</tr>
<tr>
<td>JPN 1121</td>
<td>AS-LANG</td>
<td>Elementary Japanese Language and Civilization II</td>
<td>PR: ENC 1102 or equivalent proficiency. Communication in conversational Japanese to enhance knowledge of the sound changes, speech functions and styles in verbal discourse.</td>
</tr>
<tr>
<td>JST 3005</td>
<td>AS-JUD</td>
<td>Tenets of Judaism</td>
<td>PR: ENC 1101 and ENC 1102. Values, practices, and beliefs that define Judaism.</td>
</tr>
<tr>
<td>JST 3121</td>
<td>AS-JUD</td>
<td>Classic Texts of Judaism</td>
<td>PR: ENC 1102. Scriptures, post-Biblical Rabbinic writings, Exegetes, Apocrypha, Qumran documents, Mishnah, Talmud, the Siddur, as well as Jewish mystical writings.</td>
</tr>
<tr>
<td>JST 3125</td>
<td>AS-JUD</td>
<td>The Book of Job</td>
<td>PR: Jr standing. The Book of Job as literature, theology and ethics.</td>
</tr>
<tr>
<td>JST 3126</td>
<td>AS-JUD</td>
<td>Romantic Love in the Bible</td>
<td>PR: ENC 1102, Junior standing. The dimensions of romantic love in the Hebrew Bible, focusing on the depiction of human feelings of love and relationship; the nature of man-woman interactions in ancient Israel.</td>
</tr>
<tr>
<td>JST 3144</td>
<td>AS-JUD</td>
<td>Dead Sea Scrolls</td>
<td>PR: Junior standing or C.I. The Dead Sea Scrolls, their literary and historical context, and significance.</td>
</tr>
<tr>
<td>JST 3312</td>
<td>AS-JUD</td>
<td>Identity and Genre</td>
<td>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.</td>
</tr>
<tr>
<td>JST 3312H</td>
<td>AS-JUD</td>
<td>Honors Jewish Identity and Genre</td>
<td>PR: ENC 1102 and consent of Honors. Literary genres in Jewish and Hebrew literature of the 18th and 19th centuries as related to the intellectual quest for Jewish identity and modernism. With Honors content.</td>
</tr>
<tr>
<td>JST 3401</td>
<td>AS-JUD</td>
<td>The Jewish People I</td>
<td>PR: C.I. The Jewish People I: Introduction survey of the history and culture of the Jewish people from the beginnings of Judaism in the biblical era through the Graeco-Roman and rabbinic periods.</td>
</tr>
<tr>
<td>JST 3402</td>
<td>AS-JUD</td>
<td>The Jewish People II</td>
<td>PR: The life and history of the Jews in the medieval and modern worlds.</td>
</tr>
</tbody>
</table>
LAE 4464 ED-TLP 3(3,0)
Survey of Adolescent Literature: This course is designed to explore adolescent literature from both an educational and an historical perspective.

LAE 5195 ED-TLP 3(3,0)
CFWP Teacher Consultant: PR: C.I. This course is designed for Fellows of the CFWP Summer Institute who will plan, practice, and present writing instruction components to public schools.

LAE 5295 ED-TLP 1-3(1-3,0)
Writing Workshop II: PR: C.I. Students will engage in exploration and practice of effective writing strategies. May include teaching small groups of students. May be repeated for credit.

LAE 5319 ED-TLP 3(3,0)
Methods of Elementary School Language Arts: PR: EDG 4233. Principles, procedures, organization and current practices in reading, writing, listening, and talking.

LAE 5337 ED-TLP 3(3,0)
Literacy Strategies for Middle and Secondary Teaching: PR: EDG 6236 or C.I. Designed to assist teachers and graduate students in understanding the adolescent learner. This course will examine theory, strategies, research, resources and implementation options for effective middle and secondary literacy programs.

LAE 5338 ED-TLP 3(3,0)
Teaching Writing in Middle and High School: PR: EDG 6236 or C.I. Techniques and methods in teaching dialects, semantics, and the various grammars within the context of writing.

LAE 5346 ED-TLP 3(3,0)
Methods of Teaching English Language Arts: PR: EDG 6236 or C.I. Designed for alternative certification and Masters of Arts students to explore the strands, methods and materials related to school curriculum in teaching English.

LAE 5367 AS-ENG 3(3,0)
English Composition and Literature for Teachers of English: PR: Gradate status or senior standing, and C.I. A two-week summer institute for secondary school teachers preparing to teach Advanced Placement courses.

LAE 5415 ED-TLP 3(3,0)
Children's Literature in Elementary Education: Survey of children's literature: criteria for selection according to literary elements and child development needs. Methods for presenting to children, integrating literature with elementary curricula.

LAE 5465 ED-TLP 3(3,0)
Literature for Adolescents: PR: Senior standing or C.I. Selecting and evaluating books for adolescents on emphasis on the use of literature in the development of young people.

LAE 5495 ED-TLP 3(3,0)
Assessing Writing: PR: C.I. Students will explore a variety of strategies for assessing students' writing including holistic scoring, primary trait scoring, and portfolio assessment.

LAH 3130 AS-HIST 3(3,0)

LAH 3200 AS-HIST 3(3,0)

LAH 3400 AS-HIST 3(3,0)
History of Mexico and Central America: PR: EUH 2000 and 2001 or C.I. A survey of Mexican and Central American history from Pre-Columbian times to the present.

LAH 3470 AS-HIST 3(3,0)
History of the Caribbean: PR: EUH 2000 and 2001 or C.I. History of Cuba, Puerto Rico, Dominican Republic, and Haiti from Pre-Columbian times to the present.

LAH 4742 AS-HIST 3(3,0)
The Mexican Revolution: PR: AMH 2020 or C.I. Political and social history of Mexico since 1910 and domination of one party rule over 70 years.

LAH 5713 AS-HIST 3(3,0)
Colloquium in U.S.-Latin American Relations: PR: Graduate status or senior standing or C.I. The course will analyze U.S.-Latin American relations from an historical perspective. It will be presented through readings and discussion of selected materials.

LAS 4023 AS-AAS 3(3,0)
African Caribbean Experience: PR: Junior standing or C.I. Interdisciplinary study of the evolution of African Caribbean culture, its influence on institutions, social and political movements, and contemporary Caribbean society.

LAT 1120 AS-LANG 4(4,1)
Elementary Latin Language and Civilization I: PR: Admission to Undergraduate Education Program or C.I. Criteria for analysis and evaluation of children's literature in terms of interests, needs, and abilities of children.

LAT 1121 AS-LANG 4(4,1)
Elementary Latin Language and Civilization II: PR: LAT 1120 or equivalent. Continuation of LAT 1120.

LAT 1121H AS-LANG 4(4,1)
Honors Elementary Latin Language and Civilization II: PR: LAT 1120H or equivalent and permission of Honors. Continuation of LAT 1120H, with honors-level content.

LIN 3010 AS-ENG 3(3,0)

LIN 3640 AS-PSYCH 3(3,0)
Psychology of Oral Communication: Psychological principles involved in the communicative process, with application to individuals and groups.

LIN 3716 HPA-COMD 3(3,0)
Language Development: Birth Through 8 Years.: PR: DEP 2004. Study of the language acquisition process in children from birth through eight years and how meaning is conveyed through sounds, words, and sentences.

LIN 3717 HPA-COMD 3(3,0)
Language Development: 9 - 18 Years: PR: LIN 3716. Study of the language acquisition process in children from nine through eighteen years and how meaning is conveyed through sounds, words, and sentences.

LIN 4100 AS-ENG 3(3,0)
**UCF Courses and Descriptions**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 4643</td>
<td>AS-ENG 3(3,0) Cross Cultural Communication: PR: ENC 1102 and Junior standing or C.I. Styles of spoken, written, and non-verbal communication of selected cultural groups.</td>
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<tr>
<td>LIN 4643H</td>
<td>AS-ENG 3(3,0) Honors Cross-Cultural Communication: PR: ENC 1102H and permission of Honors. Styles of spoken, written, and non-verbal communication of selected cultural groups with honors level content.</td>
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<tr>
<td>LIN 4660</td>
<td>AS-ENG 3(3,0) Linguistics and Literature: PR: LIN 3010 or C.I. Language study as an aid to understanding literature.</td>
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<tr>
<td>LIN 4680</td>
<td>AS-ENG 3(3,0) Modern English Grammar: PR: ENC 1102 and Sophomore standing. Emphasis upon the analysis and comprehension of traditional, structural, and transformational grammar.</td>
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<tr>
<td>LIN 4711</td>
<td>HPA-COMD 3(3,0) Language Analysis: PR: LIN 3716 and LIN 3717. Introduction to procedures for sampling, analyzing, and describing language across the lifespan.</td>
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<tr>
<td>LIN 4711L</td>
<td>HPA-COMD 1(0,1) Language Analysis Lab: PR: LIN 3716 and LIN 3717. Introduction to procedures for sampling, analyzing and describing language samples across the lifespan. Graded SU.</td>
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<tr>
<td>LIN 4801</td>
<td>AS-ENG 3(3,0) Language and Meaning: PR: ENC 1102 and Sophomore standing. A linguistic study of the nature of language, meaning, and the ways in which man uses language in various social, cultural, institutional, and professional settings.</td>
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<tr>
<td>LIN 5137</td>
<td>AS-ENG 3(3,0) Linguistics: PR: Graduate status or senior standing or C.I. Modern linguistic theories and studies focusing on language acquisition and development, contemporary American English, semantics, and para-linguistics.</td>
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<td></td>
</tr>
<tr>
<td>LIN 5675</td>
<td>AS-ENG 3(3,0) English Grammar and Usage: PR: Graduate status or senior standing or C.I. An overview of modern grammar, including structural, transformational and rhetorical grammar, along with an examination of controversial usage.</td>
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</tr>
<tr>
<td>LIT 2000</td>
<td>AS-ENG 3(3,0) Introduction to Literary Interpretation: PR: ENC 1102. Interpretation of fiction, drama, verse: conflict, characterization, point of view, rhetorical and poetic devices, figurative language, verse forms; application of critical approaches to selected works.</td>
<td></td>
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</tr>
<tr>
<td>LIT 2110</td>
<td>AS-ENG 3(3,0) World Literature I: PR: ENC 1102. Poetry, prose, and drama selected from ancient Hebrew, Greek, and Oriental literature and from that of Renaissance Europe.</td>
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</tr>
<tr>
<td>LIT 2120</td>
<td>AS-ENG 3(3,0) World Literature II: PR: ENC 1102. Readings from Moliere, Voltaire, Goethe, Pushkin, Balzac, Tolstoy, Ibsen, Mann, Kafka, Camus, and others.</td>
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<td></td>
</tr>
<tr>
<td>LIT 2120H</td>
<td>AS-ENG 3(3,0) World Literature II — Honors: PR: Permission of Honors. Same as LIT 2120, with honors-level content.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIT 3082</td>
<td>AS-ENG 3(3,0) Continental European Fiction Since 1900: PR: ENC 1102. A selection of significant works of fiction written in various languages during the present century, read in translation.</td>
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</tr>
<tr>
<td>LIT 3192</td>
<td>AS-ENG 3(3,0) Caribbean Literature: PR: ENC 1102. Traces how Caribbean societies have achieved self-expression through documentary writing, prose fiction, and popular culture; in English.</td>
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<tr>
<td>LIT 3192H</td>
<td>AS-ENG 3(3,0) Honors Caribbean Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. How Caribbean societies have achieved self-expression through documentary writing, prose fiction, and popular culture; taught in English. Honors content.</td>
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<tr>
<td>LIT 3202</td>
<td>AS-ENG 3(3,0) Death and Dying: PR: ENC 1102. Considering the topic of death and dying through a study of literature, the course includes facts, psychological impact, ideological responses to death and identity.</td>
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<tr>
<td>LIT 3313</td>
<td>AS-ENG 3(3,0) Science Fiction: PR: ENC 1102. An investigation of science fiction as a literary form, together with selected readings.</td>
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<tr>
<td>LIT 3313H</td>
<td>AS-ENG 3(3,0) Honors Science Fiction Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. An investigation of science fiction as a literary form, together with selected readings. Honors content.</td>
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<tr>
<td>LIT 3383</td>
<td>AS-ENG 3(3,0) Women in Literature: PR: ENC 1102. Fiction, poetry, drama and non-fiction by selected women writers, such as Emily Dickinson, Jane Austen, George Eliot, Kate Chopin, Zora Neale Hurston, Toni Morrison, Adrienne Rich, Gwendolyn Brooks.</td>
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<tr>
<td>LIT 3383H</td>
<td>AS-ENG 3(3,0) Honors Women in Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. Fiction, poetry, drama and non-fiction by selected women writers, such as Emily Dickinson, Jane Austen, George Eliot, Kate Chopin, Zora Neale Hurston, Toni Morrison, Adrienne Rich, Gwendolyn Brooks. Honors content.</td>
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<tr>
<td>LIT 3394</td>
<td>AS-ENG 3(3,0) Literature of AIDS: PR: ENC 1102. To familiarize students with the new genre of literature that has arisen related to AIDS. Essays, short stories, plays, poetry, diaries, and novels will be covered.</td>
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<tr>
<td>LIT 3394H</td>
<td>AS-ENG 3(3,0) Honors Literature of AIDS: PR: Permission of Honors and ENC 1102H or equivalent credit. Literature related to AIDS. Essays, short stories, plays, poetry, diaries, and novels. Honors content.</td>
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<tr>
<td>LIT 3482</td>
<td>AS-ENG 3(3,0) Literature &amp; Popular Culture: PR: ENC 1102. Analysis of media to determine popular values in the formation of popular cultural perceptions.</td>
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<tr>
<td>LIT 3905</td>
<td>AS-ENG 3(3,0) Directed experience in Literature: PR: ENC 1102, C.I. Individualized topics of study and/or research in literature with personalized faculty direction. May be repeated for credit.</td>
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<tr>
<td>LIT 3911H</td>
<td>AS-ENG 1(1,0) Research Methods — Honors: PR: Permission of Honors. Introduction to scholarship and practical research in literature and writing.</td>
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<tr>
<td>LIT 4043</td>
<td>AS-ENG 3(3,0) Modern Drama As Literature: PR: ENC 1102 and ENG 3014. A study of important plays, playwrights, themes, movements, and styles in modern American, British, and European drama.</td>
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<tr>
<td>LIT 4184</td>
<td>AS-ENG 3(3,0) Irish Literature: PR: ENC 1102 and ENG 3014. Study of literature written in Ireland, within the context of Irish history, politics, culture and colonial experience.</td>
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<tr>
<td>LIT 4303</td>
<td>AS-ENG 3(3,0) Post-World War II Fiction: PR: ENC 1102 and ENG 3014. An investigation of various modes of reality in the works of significant postmodernist world authors, crossing cultural boundaries.</td>
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<tr>
<td>LIT 4374</td>
<td>AS-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.</td>
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<tr>
<td>LIT 4374H</td>
<td>AS-ENG 3(3,0) Honors Literature of the Bible: PR: Permission of Honors and ENC 1102H or equivalent credit. Literary forms in the Bible—narrative, poetic, and dramatic—and their reflection in modern literature. Honors content.</td>
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<tr>
<td>LIT 4433</td>
<td>AS-ENG 3(3,0) Survey of Technical and Scientific Literature: PR: ENC 1102 and Junior Standing or C.I. An analysis of the historical development of technical and scientific writing from the Renaissance to the present.</td>
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<tr>
<td>LIT 4554</td>
<td>AS-ENG 3(3,0) Advanced Feminist Theories: PR: ENC 1102, WST 3015 or ENG 3014. An advanced exploration of feminist critical theories and practices.</td>
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<tr>
<td>LIT 4937H</td>
<td>AS-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.</td>
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<tr>
<td>LIT 5028</td>
<td>AS-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.</td>
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<tr>
<td>LIT 5039</td>
<td>AS-ENG 3(3,0) Studies in Contemporary Poetry: PR: Graduate status or senior standing or C.I. English language poetry from 1845 to the present. Emphasis will be on American poems, but others such as English or Australian will be included.</td>
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<tr>
<td>LIT 5097</td>
<td>AS-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.</td>
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<tr>
<td>LIT 5250</td>
<td>AS-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 Brothers, Arnold, Hopkins, Hardy, the Rossetti, Emily Bronte, and others.</td>
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<tr>
<td>LIT 5269</td>
<td>AS-ENG 3(3,0) Nineteenth-Century Essays: PR: Graduate status or senior standing or C.I. English non-fiction prose of the 19th century. May be repeated for credit when content is different.</td>
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<tr>
<td>LIT 5309</td>
<td>AS-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.</td>
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<td>LIT 5366</td>
<td>AS-ENG 3(3,0) The Romantic Revolt (19th Century Literature): PR: Graduate status or senior standing or C.I. The romantic revolt in poetry and prose; English, American and Continental literature from 1798 to 1832.</td>
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</tbody>
</table>
LIT 5387 AS-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 18th centuries.

LIT 5389 AS-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.

LIT 5435 AS-ENG 3(3,0) Rhetoric of Science: PR: Graduate standing or C.I. To engage in rhetorical analysis of traditional scientific texts and critically examine the discourse of technology.

LIT 5556 AS-ENG 3(3,0) Advanced Feminist Theories: PR: Graduate status or senior standing or C.I. Graduate level Feminist Theories from "French Feminism" to "Critical Race Theory."


MAA 4227 AS-MATH 3(3,0) Advanced Calculus II: PR: MAA 4226 or C.I. Continuation of MAA 4226.

MAA 5210 AS-MATH 4(4,0) Topics in Advanced Calculus: PR: MAA 4226 or equivalent, graduate status or senior standing, or C.I. Topics in multivariable calculus, including limits, continuity, integration, differentiation, Taylor's theorem, inverse and implicit function theorems.

MAA 5405 AS-MATH 3(3,0) Complex Variables: PR: MAC 2313, and graduate status or senior standing or C.I. Analytic functions. Integration in the complex plane. Laurent series and residue calculus. Inversion of Laplace transformations. Conformal mappings. Applications in engineering and the physical sciences.

MAA 5416 AS-MATH 3(3,0) Foundations of Analysis: PR: MAA 4226, and graduate status or senior standing or C.I. Topological spaces, compactness results, connectedness, analytical and differentiable manifolds, topological groups, Lie groups, representation theory for classical groups, Green, Stokes and Gauss' theorems.

MAC 1105 AS-MATH 3(3,0) College Algebra: PR: Intermediate algebra or 2 years of high school algebra or C.I. Inequalities. High degree polynomials. Graphs, rational, logarithmic, and exponential functions. Systems of equations, matrices, determinants, induction. This course prepares students for higher-level mathematics courses. The "NC" grading policy applies to this course.

MAC 1105H AS-MATH 3(3,0) Honors College Algebra: PR: Appropriate score on placement test and permission of Honors. Analysis of functions (including polynomial, rational, exponential, logarithmic), analysis of conic sections, analysis of systems of linear equations, sequences and series, mathematical induction, and the binomial theorem. "NC" grading policy applies to this course.

MAC 2147 AS-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.

MAC 2233 AS-MATH 3(3,0) Concepts of Calculus: PR: MAC 1105 or C.I. The differential and integral calculus of rational, exponential and logarithmic functions, with applications to business analysis. Not open to students with credit in MAC 2523 or MAC 2111. The "NC" grading policy applies to this course.

MAC 2241 AS-MATH 4(4,0) Calculus for Life Sciences: PR: MAC 1105. Discrete dynamical systems, derivatives and dynamics, applications of derivatives, integrals and their applications. For biologists and others required to have one semester of calculus. The "NC" grading policy applies to this course.

MAC 2253 AS-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 2303 or MAC 2311. The "NC" grading policy applies to this course.

MAC 2254 AS-MATH 3(3,0) Applied Calculus II: PR: MAC 2253 or C.I. Continuation of MAC 2253.

MAC 2281 AS-MATH 4(4,0) Calculus for Scientists & Engineers I: PR: MAC 1105 and MAC 1114. Calculus for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in MAC 2311, MAC 2312, and MAC 2313. The "NC" grading policy applies to this course.

MAC 2281H AS-MATH 4(4,0) Calculus for Scientists and Engineers I (Honors): PR: MAC 1105 and MAC 1114 or Consent of Honors Program. Same material as MAC 2281, taught at the Honors level. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to student with credit in any other calculus sequence. The "NC" grading policy applies to this course.

MAC 2282 AS-MATH 4(4,0) Calculus for Scientists & Engineers II: PR: MAC 2281. Same material, different order, as MAC 2311, MAC 2312, and MAC 2313. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in any other calculus sequence. The "NC" grading policy applies to this course.

MAC 2282H AS-MATH 4(4,0) Calculus for Scientists and Engineers II (Honors): PR: MAC 2281H or MAC 2281, and consent of Honors Program. Same material as MAC 2282, taught at the Honors level. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in any other calculus sequence. The "NC" grading policy applies to this course.

MAC 2283 AS-MATH 4(4,0) Calculus for Scientists & Engineers III: PR: MAC 2282. Same material, different order, as MAC 2311, MAC 2312, and MAC 2313. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in any other calculus sequence. The "NC" grading policy applies to this course.

MAC 2283H AS-MATH 4(4,0) Calculus for Scientists and Engineers III (Honors): PR: MAC 2282H or MAC 2282 and consent of Honors Program. Same material as MAC 2283, taught at the Honors level. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in any other calculus sequence. The "NC" grading policy applies to this course.

MAC 2311 AS-MATH 4(4,0) Calculus with Analytic Geometry I: PR: MAC 1105 and MAC 1114 or equivalent or C.I. The differential and integral calculus of algebraic and elementary transcendental functions with geometric and physical applications. Topics from analytic geometry include coordinate systems, vectors, lines, conic sections, transformations of coordinates, and polar coordinates. During the 2nd and 3rd semesters the topics also include sequences and series, Taylor series, and the differential and integral calculus for functions of several variables. The "NC" grading policy applies to this course.

MAC 2311H AS-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.

MAC 2312 AS-MATH 4(4,0) Calculus with Analytic Geometry II: PR: MAC 2311 or C.I. Continuation of MAC 2311.

MAC 2312H AS-MATH 4(4,0) Calculus with Analytic Geometry II (Honors): PR: Permission of Honors. Continuation of MAC 2311.

MAC 2313 AS-MATH 4(4,0) Calculus with Analytic Geometry III: PR: MAC 2312 or C.I. Continuation of MAC 2312.

MAC 2313H AS-MATH 4(4,0) Calculus with Analytic Geometry III (Honors): PR: Permission of Honors. Continuation of MAC 2312H.

MAC 3103H AS-MATH 3(3,0) Systems Modeling and Simulation: PR: Permission of Honors and MAC 2312. Population growth dynamics; spread of an epidemic; ecological predator-prey relationships; insulin and its use in the control of diabetes; economic systems.

MAC 2104 AS-MATH 3(3,0) Foundations of Discrete Math: PR: 2 years of high school algebra and 1 year of geometry or C.I. Basic mathematical logic, methods of proof in mathematics, and application to elementary discrete structure.

MAC 4203 AS-MATH 4(4,0) Combinatorics and Graph Theory: PR: MAC 2312 and STA 2023. Counting principles, inclusion/exclusion principle, recurrence relations, generating functions, properties of graphs and digraphs, trees, path problems, coloring planarity, connectiveness matchings and coverings, applications.

MAC 5205 AS-MATH 3(3,0) Combinatorics and Graph Theory: PR: MAC 4203, graduate status or senior standing, or C.I. Polya's theory of counting; Latin squares and rectangles; block designs; coding theory; probabilistic methods; hypergraphs; applications.

MAE 2801 ED-TLP 4(3,1) Elementary School Mathematics: PR: MAC 1105 or MGF 1106. Mathematics appropriate for the elementary school including the six basic sets of numbers, concepts, learning sequences, algorithms, problem-solving techniques, error patterns, number systems, and geometry.

MAE 4300 ED-TLP 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAE 4326</td>
<td>How Children Learn Mathematics</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>MAE 4360</td>
<td>Mathematics Instructional Analysis</td>
<td>4(3,2)</td>
<td>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.</td>
</tr>
<tr>
<td>MAE 4634</td>
<td>Programs in Teaching of Mathematics</td>
<td>3(2,1)</td>
<td>PR: C.I. A consideration of special programs, strategies, and materials. Emphasis on individual needs of students.</td>
</tr>
<tr>
<td>MAE 5318</td>
<td>Current Methods in Elementary School Mathematics</td>
<td>3(3,0)</td>
<td>PR: EDG 4323, Strategies of instruction of concepts of number, geometry, and measurement; instructional materials. (Meets Elementary Education certification requirements.)</td>
</tr>
<tr>
<td>MAE 5327</td>
<td>Teaching Middle School Mathematics</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>MAE 5336</td>
<td>Current Methods in Secondary School Mathematics</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>MAE 5935</td>
<td>AS-MATH Post-Secondary Mathematics</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>MAN 3025</td>
<td>Management of Organizations</td>
<td>3(3,0)</td>
<td>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, organizing, operation theory, human behavior and control.</td>
</tr>
<tr>
<td>MAN 3025H</td>
<td>Honors Management of Organizations</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>MAN 3301</td>
<td>Management of Human Resources</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>MAN 4029</td>
<td>Service Organization Management</td>
<td>3(3,0)</td>
<td>PR: Management major, MAN 3025 and ISM 3530. Study of the special characteristics, problems, and methods for managing service-oriented organizations.</td>
</tr>
<tr>
<td>MAN 4101</td>
<td>Human Relations in Management</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>MAN 4240</td>
<td>Organizations: Theory and Behavior</td>
<td>3(3,0)</td>
<td>PR: Management major, MAN 3025. A course providing a micro/macro approach to the study of organizations by integrating organizational theory and organizational behavioral science concepts.</td>
</tr>
<tr>
<td>MAN 4310</td>
<td>Human Resource Management Issues</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>MAN 4320</td>
<td>Human Resources Recruitment and Selection</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>MAN 4330</td>
<td>Compensation Administration</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>MAN 4350</td>
<td>Training and Development</td>
<td>3(3,0)</td>
<td>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.</td>
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<tr>
<td>MAN 4401</td>
<td>Labor Relations Management</td>
<td>3(3,0)</td>
<td>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.</td>
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<tr>
<td>MAN 4441</td>
<td>Conflict Resolution and Negotiation</td>
<td>3(3,0)</td>
<td>PR: MAN 3025. Conflict resolution and negotiation theories and processes applied to human resource management practices and other management activities in work organizations.</td>
</tr>
<tr>
<td>MAN 4521</td>
<td>Production Planning and Control</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>MAN 4600</td>
<td>International Management</td>
<td>3(3,0)</td>
<td>PR: Management major, GEB 4361. The course examines issues involved in multinational management of business firms, with special emphasis on comparative management.</td>
</tr>
<tr>
<td>MAN 4701</td>
<td>Business Ethics and Society</td>
<td>3(3,0)</td>
<td>PR: Management major, MAN 3025. This course applies the ethics dimension to business decisions in today's complex political, social, economic and technological environment.</td>
</tr>
<tr>
<td>MAN 4720</td>
<td>Strategic Management</td>
<td>3(3,0)</td>
<td>PR: Completion of the remainder of the Core Curriculum, grading experience, and business major or minor. Students assume a strategic view of organizations and integrate and apply material learned in their business courses to modern organizational problems and opportunities.</td>
</tr>
<tr>
<td>MAN 4720H</td>
<td>Honors Strategic Management</td>
<td>3(3,0)</td>
<td>PR: Permission of Honors and Graduating semester. Capstone course integrates and applies management theories, and frameworks to tackle modern organizational planning problems, and opportunities. Honors content.</td>
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</tbody>
</table>
MAP 4363 AS-MATH 3(3,0)  

MAP 4364 AS-MATH 3(3,0)  
Applied Boundary Value Problems II: PR: MAP 4363 or C.I. Legendre polynomials and Bessel functions. The theory of Sturm-Liouville. Separation of variables. Applications involving the wave equation, heat equation and equation of Laplace.

MAP 4371 AS-MATH 3(3,0)  
Numerical Methods for Differential Equations: PR: MAC 2283 or MAC 2213, MAS 3105 or C.I. Numerical theory and practices used in solving ordinary differential equations and PDE. Covers Euler's method, trapezoidal rule, multi-step methods, Runge-Kutta, error control, finite differences, implicit and explicit schemes, iterative methods, and stability.

MAP 5106 AS-MATH 3(3,0)  
Introduction to Quantitative Aspects of Modeling and Simulation: PR: MAC 2253, graduate status or senior standing, or C.I. An introduction to calculus, matrix algebra, probability and statistics, and high-level programming languages. A student who has mastered this content does not have to take this course.

MAP 5117 AS-MATH 3(3,0)  
Mathematical Modeling: PR: STA 4521, MAP 4363, graduate status or senior standing, or C.I. Introduction to modeling in industrial and scientific applications; techniques for studying statistical and deterministic models.

MAP 5336 AS-MATH 3(3,0)  
Ordinary Differential Equations and Applications: PR: MAP 2302, and graduate status or senior standing or C.I. Existence and uniqueness of solutions of differential equations, systems of ordinary differential equations, autonomous systems, phase plane analysis, stability, bifurcations.

MAP 5385 AS-MATH 3(3,0)  
Applied Numerical Mathematics: PR: MAP 2302, graduate status or senior standing, or C.I. Classical topics or numerical analysis and their applications, Romberg integration, Richardson extrapolation, Gaussian quadrature schemes.

MAP 5396 AS-MATH 3(3,0)  
Splines and Data Fitting: PR: MAS 3106, MAS 3105, MAP 2302, and graduate status or senior standing or C.I. Univariate splines and their application to data fitting. Applications to regression analysis, differential and integral equations. Algorithms to use different types of splines in computation.

MAP 5404 AS-MATH 3(3,0)  
Mathematical Foundations for Industrial Engineering and Operations: PR: MAP 2302, ESI 5219 or equivalent, ESI 4312, and graduate status or senior standing or C.I. Methods of proof, set theory, basic elements of topology, real analysis, graph theory, and matrix analysis.

MAP 5407 AS-MATH 3(3,0)  

MAP 5426 AS-MATH 3(3,0)  
Special Functions: PR: MAP 2302, and graduate status or senior standing or C.I. Series and integral representations, generating functions, recurrence relations and orthogonality properties of the special functions. Emphasis on Bessel, Legendre and hypergeometric functions.

MAP 5435 AS-MATH 3(3,0)  
Advanced Mathematics for Engineers: PR: MAP 2302, and graduate status or senior standing or C.I. Linear Algebra and matrix methods, ordinary differential equations, Fourier series, partial differential equations, numerical methods for differential equations, and applications to engineering.

MAP 5514 AS-MATH 3(3,0)  
Linear and Nonlinear Waves I: PR: MAP 2302, MAP 4363, and graduate status or senior standing, or C.I. Equations of motion in inviscous and viscous fluids, energy equation and energy flux, linear theory of gravity and capillary-gravity waves, variational principles for water waves.

MAP 5931 AS-MATH 1(1,0)  
Research Seminar: PR: Graduate status or senior standing or C.I. Four instructors will introduce the students to a research area by presenting necessary background and presenting current investigations. Different branches of mathematics will be presented for a sense of diversity.

MAR 3023 BA-MAR 3(3,0)  
Marketing: BA-MAR 3(3,0)  
Marketing: PR: Junior standing and business major or minor. Study of functions, institutions, and basic problems in marketing of goods and services in our domestic economy and abroad.

MAR 3023H BA-MAR 3(3,0)  
Marketing - Honors: PR: Junior standing and business major or minor, permission of Honors. Honors introductory course in marketing. Topics include customer orientation, segmentation, positioning, strategic marketing management, implementation, and control.

MAR 3323 BA-MAR 3(3,0)  
Integrated Marketing Communication: PR: Marketing major or minor, MAR 3023. Planning and execution of advertising, sales promotion, and public relations programs consistent with integrated marketing communications programs.

MAR 3391 BA-MAR 3(3,0)  
Professional Selling: PR: Marketing major or minor, MAR 3023. Written and verbal communications skills applied to marketing settings. A significant portion of the course is devoted to the study of professional selling.

MAR 3403 BA-MAR 3(3,0)  
Sales Force Management: PR: Marketing major or minor, MAR 3023. An overview of the sales management process. Emphasis on sales program formulation and implementation.

MAR 3503 BA-MAR 3(3,0)  
Customer Behavior: PR: Marketing major or minor, MAR 3023. End user and business customer buying behavior, building long-term customer relationships, segmentation of markets and positioning strategies.

MAR 3613 BA-MAR 3(3,0)  
Marketing Analysis and Research: PR: Marketing major or minor, MAR 3023 and one of the following: ECO 3401, ECO 3411, STA 2023, STA 3032. Analytical tools and their application to marketing problems and decision making. Forecasting, financial analysis, and acquisition of primary data through market research are emphasized.

MAR 3641 BA-MAR 3(3,0)  
Marketing Intelligence: PR: Marketing major or minor, MAR 3023. Contemporary sources and applications of information concerning external forces impacting market decision making.

MAR 3880 BA-MAR 3(3,0)  
E-Marketing: PR: Marketing major or minor, MAR 3023, CWS 2100. Course provides an in-depth study of the role of the internet in developing marketing strategies and plans.

MAR 4156 BA-MAR 3(3,0)  
International Marketing: PR: Marketing major or minor, MAR 3023. Investigates strategy, policy and the variables in international marketing decisions.

MAR 4231 BA-MAR 3(3,0)  
Retailing Management: PR: Marketing major or minor, MAR 3023. Analysis of the field of retailing. Emphasis on planning for profit through management, inventory control, etc.

MAR 4392 BA-MAR 3(3,0)  
Advanced Professional Selling: PR: MAR 391 and Department Consent. Advanced study of the professional selling process, including team selling, negotiating, customer conflict management, and CRM systems.

MAR 4711 BA-MAR 3(3,0)  
Sports Marketing: PR: Marketing major or minor, MAR 3023. Study of marketing as it applies to the sports and leisure industry.

MAR 4712 BA-MAR 3(3,0)  
Healthcare Marketing: PR: Marketing major or minor, MAR 3023. Study of marketing as it applies to healthcare manufacturers, intermediaries and providers.

MAR 4715 BA-MAR 3(3,0)  
Entertainment Marketing: PR: MAR 3023. Application of marketing theory and tools to the marketing of products and services in the entertainment industry.

MAR 4724 BA-MAR 3(3,0)  

MAR 4803 BA-MAR 3(3,0)  
Marketing Management: PR: Marketing major or minor, MAR 3503 and MAR 3613. Planning, organizing, implementing, monitoring and controlling marketing programs to effectively compete in dynamic and diverse business environments.

MAR 4804 BA-MAR 3(3,0)  
Marketing Strategy: PR: Marketing major or minor, MAR 4803. Marketing problems are explored, with emphasis on strategy formulation and integrative marketing decision making.

MAR 4841 BA-MAR 3(3,0)  
Services Marketing: PR: Marketing major or minor, MAR 3023. Examination of marketing in service industries, with particular emphasis on unique aspects of services marketing, the service marketing mix, and the implementation of services strategies.

MAR 4941 BA-MAR 3(3,0)  
Marketing Internship: PR: Marketing major, application approval, consent of department chair. Provides student with supervised, market-related work experience in a sponsoring organization. Application required.

MAR 5055BA-MAR 1-3(1-3,0)  
Marketing Foundations: PR: Acceptance into the graduate program. Study of functions, institutions, and basic marketing of goods in the U.S. economy.

MAR 5941 BA-MAR 3(3,0)  
Small Business Consulting: PR: Graduate status, all foundation classes, FIN 4406, MAR 6816. Provides students opportunity to apply knowledge learned in classroom to real business situations. Open to undergraduate majors in the College of Business Administration with approval of the department chair.
program. Isolation and pathogenic bacteria and serological methods: interpretation of abnormal results, with correlation to disease. Materials & Supply fee: $45.00


M.S. 4550 BCBS-M&M 4(2,6) Clinical Immunohematology: PR: Admission to the professional phase of the M.S. program or C.I. Investigation of incompatibility crossmatches; antibody identification, leukocyte antigens and identification procedures, problem solving. Materials & Supply fee: $15.00

M.S. 4625 BCBS-M&M 3(3,0) Advanced Clinical Chemistry I: PR: CHM 2210. Correlation of lab test to specific disease states including deviations in carbohydrate, amino acid metabolism, renal function, gastric function, electrolytes, and blood gases.

M.S. 4625L BCBS-M&M 1(0,3) Advanced Clinical Chem I Lab: PR: MLS 4625. Laboratory procedures routinely performed in a clinical chemistry laboratory.

M.S. 4630 BCBS-M&M 3(3,0) Advanced Clinical Chemistry II: PR: Admission to professional phase of M.S. or C.I. Correlation of laboratory tests to specific human disease states.

M.S. 4630L BCBS-M&M 1(0,3) Advanced Clinical Chem II Lab: PR: CHM 2205 or C.I. CR: MLS 4630C. Performance of laboratory procedures routinely used in a clinical chemistry laboratory.

M.S. 4830C BCBS-M&M 4(4,8) Interpretive & Practical Clinical Chemistry: PR: Admission to the M.S. program, MLS 4625C, MLS 4630C. Clinical instruction and practice in the clinical chemistry laboratory. Case studies, chemist review, hands on practice both in the student lab and affiliate. Materials & Supply fee: $15.00

M.S. 4831C BCBS-M&M 4(4,8) Interpretive & Practical Immunohematology: PR: Admission to the M.S. program, MLS 4550, MLS 4505C. Advanced study of principles of immunohematology. Application and performance of techniques to solve problems in blood banking will be included. Materials & Supply fee: $15.00

M.S. 4832C BCBS-M&M 4(4,8) Interpretive & Practical Hematology: PR: Admission to the M.S. program, MLS 3350C, MLS 4334C. Advanced study of hematology and pathophysiological correlation to hematology disorders. Correlation of case studies and clinical practice in both student labs and clinical affiliates. Materials & Supply fee: $15.00

M.S. 4833C BCBS-M&M 4(4,8) Diagnostic Microbiology: PR: Admission to the M.S. program, MLS 4460C. Practical application of modern bacteriological procedures with clinical specimens to include mycology & virology and appropriate quality control. Clinical practice in both student lab and affiliate. Materials & Supply fee: $15.00

M.S. 4834C BCBS-M&M 4(4,8) Advanced Instrumentation: PR: Admission to the M.S. program, MLS 4833C. An examination review & practice of technologies impacting the clinical laboratory to include flow cytometry, PCR, LIS, robotics. Case studies will be a fundamental part of this course.

M.S. 4910 BCBS-M&M 1(1,0) Introduction to Clinical Research: PR: MLS 3220C, MLS 4625C, MLS 4550. Introduces MLS students to different types of research within the clinical setting.

M.S. 4933 CBBS-M&M 1(1,0) Medical Technology Seminar: PR: MLS Senior status. Review of MLS coursework, case study discussions and guest lectures describing employment opportunities. May be repeated for credit.

M.M. 2004 AS-COMM 3(3,0) Mass Media: Introduction to the nation’s mass media, including newspapers, radio, television, magazines, advertising, and public relations.

M.M. 3420 AS-COMM 3(3,0) Mass Media Research Methods: PR: Communication major. Theory and methods of research used by media professionals and academics, focusing on radio / TV and advertising / public relations research.

M.M. 4200 AS-COMM 3(3,0) Mass Communication Law: PR: Open only to majors in Journalism, Ad/PR, or RTV or minors in Mass media. The legal rights and responsibilities of the mass media.

M.M. 4254 AS-COMM 3(3,0) Ad/Pr campaigns: PR: Ad/Pr majors only and ADV 3000, PUR 4000 and either PUR 3100 or ADV 4101. Planning and managing communication Campaigns that integrate both advertising and public relations strategies

M.M. 4263 AS-COMM 3(3,0) New Media Technologies: PR: Majors only. RTV 3200. An examination of the technologies impacting the communications media environment and society.

M.M. 4300 AS-COMM 3(3,0) International Media: PR: Junior standing or C.I. The student will analyze different communication systems from around the world. There will be at least six case studies from any of these areas - Asia, Latin American, Western Europe, Middle East, Africa.

M.M. 4602 AS-COMM 3(3,0) Contemporary Media Issues: PR: A minimum grade of “C” (2.0) in JOU 2100C. Relationship between the mass media and society; examination of social and ethical issues and responsibilities of the media’s relationship with government.

M.M. 1001C ECS-AROTC 2(1,1) Foundations of Officership: Examines the duties and responsibilities of officers, organization and role of the Army, reviews skills pertaining to fitness and communication, and analyze Army values and expected behavior. May be repeated for credit.

M.M. 1002C ECS-AROTC 2(1,1) Basic Leadership: Presents fundamental leadership concepts and doctrine; practice basic skills that underlie effective problem solving; examine the officer experience.

M.M. 2101C ECS-AROTC 2(1,1) Individual Leadership Studies: Develops knowledge of self, self-confidence, and leadership skills; develop problem solving and critical thinking skills; apply communication, feedback, and conflict resolution skills.

M.M. 2102C ECS-AROTC 2(1,1) Leadership and Teamwork: Focuses on self-development guided by knowledge of self and group processes; challenges current beliefs, knowledge, and skills

M.M. 3201C ECS-AROTC 4(3,1) Leadership and Problem Solving: PR: Junior standing. Examines skills that underlie effective problem solving; analyzes military missions and plan military operations; and analyzes squad battle drills.

M.S.L. 3202C ECS-AROTC 4(3,1) Leadership and Ethics: PR: MLS 3201C. Probes leadership responsibilities that foster an ethical command climate; develops cadet leadership competencies; applies principles and techniques of effective written and oral communication.

M.S. 4301C ECS-AROTC 4(3,1) Leadership and Management: PR: MLS 3202C. Discuss staff organization, functions, and processes, analyze counseling responsibilities and methods, apply leadership and problem solving principles to a complex case study/simulation.

M.S. 4302C ECS-AROTC 4(3,0) Officership: PR: MLS 4301C. Capstone course to explore topics relevant to second lieutenants entering the Army; describes legal aspects of decision making and leadership; and analyzes Army organization from tactical to strategic level.

MTG 4212 AS-MATH 4(4,0) Modern Geometrics: PR: MAC 2311 or C.I. Sets of axioms and finite geometries, groups of transformations, Euclidean motions of 2-space and 3-space, convexity in 2-space and 3-space. Euclidean geometry of polygon and circle, constructible numbers, constructions and non-Euclidean geometry.

MTG 4302 AS-MATH 3(3,0) Introduction to Topology: PR: MHF 3302 or C.I. Metric spaces, topological spaces, limit points, continuity, compactness, and connectedness.

MTG 5256 AS-MATH 3(3,0) Differential Geometry: PR: MAA 4227, graduate status or senior standing, or C.I. Differentiable manifolds, tangent space and tangent bundle, flows and vector fields, Lie derivatives, cotangent space and cotangent bundles, Riemann metrics, connections and geodesics, applications in classical mechanics.

MUC 1101C AS-MUSIC 2(1,1) Composition I: PR: Open to qualified majors and non-music majors with C.I. Creative work in small forms. May be repeated for credit.

MUC 2104C AS-MUSIC 2(1,1) Composition II: PR: MUC 1101C and Music or composition major. Continuation of Composition I. Competence determined by faculty jury. May be repeated for credit.

MUC 3105C AS-MUSIC 2(1,1) Composition III: PR: MUC 1101C and MUC 2104C. Continuation of Composition II. Competence determined by faculty jury.

MUC 3311 AS-MUSIC 3(2,2) MIDI Sequencing I: PR: Keyboard ability and reading music or C.I. Utilization of synthesizers, drum machines, and computers with MIDI sequencing software to create music.

MUC 4106C AS-MUSIC 2(1,1) Composition IV: PR: MUC 1101C, MUC 2104C, MUC 3105C. Continuation of Composition III. Competence determined by faculty jury.

MUC 4313 AS-MUSIC 3(3,0) MIDI Sequencing II: PR: MUC 4441, Junior standing or C.I. Technical aspects of MIDI usage, including MIDI specification, syxEx, and MIDI machine control.

MUC 4441 AS-MUSIC 3(3,0) MIDI Sequencing III: PR: MUC 3311, Junior standing, and C.I. Continuation of sequencing, sampling, and inactive digital music technology.
<table>
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<tr>
<th>Course Code</th>
<th>Department</th>
<th>Title</th>
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</thead>
</table>
| MUC 4611C   | AS-MUSIC  | Computer Animation and Digital Music: PR: MUC 4441 or FIL 3286C and C.I. Music students and computer ani-
|             |            | mation students work collaboratively to produce animation projects with original musical scores and sound effects. |
| MUE 1291    | AS-MUSIC  | Classroom Instruments: Instruction in recorder and gui-
|             |            | tar, as it applies to classroom usage for music educators. |
| MUE 2040    | AS-MUSIC  | Introduction to Music Education: PR: None. An intro-
|             |            | duction to music education covering philosophy, history, and current practice and trends. Observation in schools required. |
| MUE 2211    | ED-CFCS   | Early Childhood Music and Movement: An examination of the role of music and creative movement in the lives of young children. |
| MUE 2440    | AS-MUSIC  | String Techniques: PR: MUED major, junior standing or C.I. Class instruction in string playing and pedagogical techniques. |
| MUE 2450    | AS-MUSIC  | Woodwind Techniques I: PR: MUED major, Junior standing or C.I. Class instruction in woodwind playing and pedagogical techniques. |
| MUE 2460    | AS-MUSIC  | Brass Techniques: PR: MUED major, junior standing or C.I. Class instruction in brass playing and pedagogical techniques. May be repeated for credit. |
| MUE 3210    | ED-CFCS   | Music of Elementary School: Fundamental proce-
|             |            | dures for teaching elementary school music, stressing appropriate music materials and activities for different age groups; selected experience in music. |
| MUE 3451    | AS-MUSIC  | Woodwind Techniques II: PR: MUE 2450, MUED major, Junior standing or C.I. Continuation of Woodwind Techniques I, with emphasis on double reeds. |
| MUE 4311    | ED-CFCS   | Elementary School Music Methods: PR: Junior stand-
|             |            | ing, MUED major. Organization and administration of instruction for comprehensive music education, K-6; instruc-
|             |            | tional planning, techniques and materials for ele-
|             |            | mentary music education. |
| MUE 4330    | ED-CFCS   | Secondary School Music Methods: PR: MUE 4311 or C.I. Instructional planning, techniques and materials in middle school, junior high and senior high classrooms; consideration of general music education program, evalu-
|             |            | ation materials and procedures. |
| MUE 4350    | ED-TLP    | General Music Pre-K through Grade 8: PR: Consent of instructor. Designed for music educators. Exploration of music materials and teaching strategies for enhancing students' learning through music. Experience with recorder, movement, choral, conducting, and curriculum infusion included. Implementation project available. May be repeat-
|             |            | ed for credit. Graded S/U. |
| MUE 4481    | AS-MUSIC  | Jazz Pedagogy: PR: Music major, MUT 1112 and C.I. Methods, materials, and resources for teaching jazz ensembles and improvisation at the secondary school level. |
| MUE 4963    | AS-MUSIC  | Music Education Pre-Professional Interview: PR: Internship I. Demonstration of comprehensive music education skills and knowledge. Graded S/U. May be repeat-
|             |            | ed one time. |
| MUE 5348C   | ED-TLP    | K-12 Music Methods: PR: Graduate standing in Music Education or C.I. Organization and administration of instruction for comprehensive music education, K-12. Instructional planning, techniques, and materials for general, choral, and instrumental music education. |
| MUG 3104    | AS-MUSIC  | Basic Conducting: Fundamental techniques and practice in conducting. |
| MUG 3202    | AS-MUSIC  | Variable Choral Conducting and Materials: PR: MUG 3104. Fundamental principles of choral conducting and rehears-
|             |            | al techniques including an examination of materials. |
| MUG 3302    | AS-MUSIC  | Variable Instrumental Conducting and Materials: PR: MUG 3104. Fundamental principles of instrumental conducting and rehearsal techniques including an examination of materials. |
| MUG 4103C   | AS-MUSIC  | Advanced Conducting: PR: C.I. Study of advanced vocal or instrumental conducting techniques. Rehearsal proce-
|             |            | dures, selection of materials and program-building, inter-
|             |            | pretation of scores, study and performance of selected works. May be repeated for credit. |
| MUL 2071C   | AS-MUSIC  | World Music Survey and Performance Laboratory: PR: MUT 1112 or C.I. An introduction to different musical cul-
|             |            | tures including West African, Caribbean, South American, and Asian. |
| MUL 3382    | AS-MUSIC  | Piano Literature II: PR: MUL 2010 or MUT 1112 and CI. History and analysis of selected genres in recent popular music. Music reading not required. |
| MUL 3400    | AS-MUSIC  | Piano Literature: PR: Major in Music or C.I. Survey of stringed keyboard literature from the 16th century to the present, with emphasis on technical, formal and perform-
|             |            | ance problems. |
| MUL 3401    | AS-MUSIC  | Piano Literature II: PR: MUL 3400. Continuation of MUL 3400. |
| MUL 3432    | AS-MUSIC  | String Literature: PR: Major standing in Music or C.I. and keyboard ability. Survey of string solo/chamber music literature from the 16th century to the present. |
| MUL 3441    | AS-MUSIC  | Woodwind Literature: PR: Junior standing, C.I. Major. Survey of woodwind literature from the 16th centu-
|             |            | ry to the present. |
| MUL 3442    | AS-MUSIC  | Brass Literature: PR: Major major (Brass). Junior stand-
|             |            | ing, C.I. Survey of brass solo/ensemble literature from 16th century to present. |
| MUL 3463    | AS-MUSIC  | Percussion Literature: PR: Major in Music or C.I. Survey of percussion instruments. |
| MUL 3603    | AS-MUSIC  | American/English Song Literature: PR: C.I. Survey of songs written by American or English composers. |
| MUL 3604    | AS-MUSIC  | German Song Literature: PR: Major major or C.I. Survey of German song literature. |
| MUL 3605    | AS-MUSIC  | French Song Literature: PR: Major major or C.I. Survey of French song literature. |
| MUM 5806    | AS-MUSIC  | Performing Arts Management: PR: Graduate status or senior standing or C.I. Structure of nonprofit performing arts organization (PAOs), examining the fundamental ele-
|             |            | ments of administration, audience development, market-
|             |            | ing, and fund-raising. |
| MUN 2442    | AS-MUSIC  | Percussion/Mallet Ensemble: PR: C.I. Preparation and performance of music for percussion with mallets. May be repeated for credit.
MUN 3113  AS-MUSIC 2(0,8)  Marching Band: PR: Admission by audition. Preparation for appearance at football games and special occasions. May be repeated for credit.

MUN 3123  AS-MUSIC 1(0,3)  Concert Band: Open to all students with audition. Study and performance of music for large ensembles. May be repeated for credit. Materials & Supply fee: $10.00

MUN 3143  AS-MUSIC 1(0,4)  Wind Ensemble: Open to all students by audition. Study and performance of music for wind ensemble and band. May be repeated for credit. Materials & Supply fee: $10.00

MUN 3283  AS-MUSIC 1(0,5)  Symphony Orchestra: PR: Audition. Open to all students by audition. Rehearsal and performance of works from the symphonic repertoire. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3313  AS-MUSIC 1(3,0)  University Choir: PR: C.I. Open to all students by audition. Study and performance of large ensemble music. Possible tours. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3323  AS-MUSIC 1(0,3)  Women's Chorus: PR: Audition and C.I. Study and performance of music for women's voices. Open to all students. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3343  AS-MUSIC 1(0,3)  Madrigal Singers: PR: C.I. Open to all students by audition. Extra rehearsals and Madrigal Dinners required. Tours. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3423  AS-MUSIC 1(0,2)  Woodwind Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3430  AS-MUSIC 1(1,0)  Trumpet Ensemble: PR: C.I. Rehearsal and performance of music for trumpet ensembles. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3433  AS-MUSIC 1(0,2)  Brass Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3443  AS-MUSIC 1(0,2)  Percussion Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3444  AS-MUSIC 1(1,0)  Mallet Ensemble: PR: C.I. Preparation and performance of music for mallet ensemble. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3453  AS-MUSIC 1(0,3)  Piano Ensemble: PR: Open to Music Majors or C.I. Study and performance of music for small ensembles. May be repeated for credit.

MUN 3483  AS-MUSIC 1(0,2)  String Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3713  AS-MUSIC 1(0,4)  Jazz Lab: PR: C.I. Open to all students by audition. Study and performance of music for small ensembles. May be repeated for credit. Materials & Supply fee: $8.00

MUN 3714  AS-MUSIC 1(0,2)  Jazz Combo: PR: Junior standing and C.I. Rehearsal and performance of music for small jazz combo, emphasizing improvisation. May be repeated for credit. Materials & Supply fee: $5.00

MUN 3717  AS-MUSIC 1(0,3)  Jazz/Pop Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit.

MUN 3723  AS-MUSIC 1(0,3)  Vocal Jazz Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit.

MUN 3813  AS-MUSIC 1(1,1)  Steel Drum Ensemble: PR: C.I. Rehearsal and performance of music arranged for steel drum band. May be repeated for credit. Materials & Supply fee: $5.00

MUN 4476  AS-MUSIC 1(0,2)  Early Music Ensemble: PR: C.I. Study and performance of pre-classical music. May be repeated for credit. Materials & Supply fee: $5.00

MUS 3503  AS-MUSIC 3(0,3)  Opera Workshop: PR: C.I. Study of expressive emotion in relation to musical theatre; staging and performance of prepared studies of popular music for vocal ensembles. May be repeated for credit.

MUS 1010  AS-MUSIC 0(9,2)  Music Forum: A series of special musical events required of music majors. Includes lectures and recitals by faculty, students, and guest artists. Graded S/U. May be repeated for credit.

MUS 1201  AS-MUSIC 1(1,0)  European Diction: A survey of French, German and Italian diction for music educators.

MUS 1952C  AS-MUSIC 3(0,0)  Women's Chorus: PR: C.I. Study and performance of music for women's voices. Open to all students. May be repeated for credit. Materials & Supply fee: $5.00

MUS 2360C  AS-MUSIC 3(2,2)  Introduction to Music Technology: PR: Music or Digital Media major or C.I. Utilization of computers and keyboards to acquire skills in MIDI sequencing, notation, CDs, and the Internet.

MUS 2360C  AS-MUSIC 3(2,2)  Music Theatre Ensemble: PR: Junior standing and C.I. Rehearsal and performance of music arranged for steel drum band. May be repeated for credit. Materials & Supply fee: $5.00

MUS 4293  AS-MUSIC 1(1,0)  Music Theatre Ensemble: PR: Junior standing and C.I. Rehearsal, study, and preparation of musical theatre score for pit orchestra and off-stage singers, culminating in public performance with University Theatre. May be repeated for credit.

MUS 4330  AS-MUSIC 2(1,1)  Recording Techniques for Classical Music: PR: MUS 2320 or C.I. Concert hall recording techniques for classical music.

MUS 4347C  AS-MUSIC 3(2,2)  Digital Notation: PR: MUC 3311. Work on projects utilizing computer notational software applications.

MUS 4401  AS-MUSIC 2(1,1)  Studio Teaching: PR: C.I. Management of the music studio; responsibilities and techniques of private instruction for the studio teacher, principles of psychology of music.

MUS 4543C  AS-MUSIC 5(3,2)  Digital Music Project: PR: MUC 3311 and MUC 4441, or C.I. Individual work on media related audio projects with emphasis on artistic/technical skills.


MUS 4645C  AS-MUSIC 3(2,2)  Music Post Production Techniques: PR: MUC 3311, MUC 4441, MUC 4612C, MUS 4635C. Audio and video film post production processes with the video recording format. Audio and multimedia technologies will be used in the synchronization of SMPTE time code.

MUS 4905  AS-MUSIC 1-4(1-4)  Directed Experience: PR: C.I. and Junior standing. Special topics of study and/or research as determined by student/faculty consultation. May be repeated for credit.

MUS 4954  AS-MUSIC 0(1,0)  Recital Performance II: PR: Senior level applied music and C.I. Public recital of 45 minutes to demonstrate performative skills. Graded S/U. May repeat one time.

MUS 5365  AS-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.

MUT 1002  AS-MUSIC 3(3,0)  Fundamentals of Music II: PR: MUT 1004. Theory and sight singing skills.

MUT 1004  AS-MUSIC 3(3,0)  Fundamentals of Music I: Basic music theory and reading music at the keyboard.


MUT 1241  AS-MUSIC 1(0,2)  Ear Training and Sight Singing I: Aural and visual/oral comprehension of elements of music - rhythm, melody, harmony, form. Intended to be taken with MUT 1111.

MUT 1242  AS-MUSIC 1(0,2)  Ear Training and Sight Singing IIB: PR: MUT 1241. Continuation of MUT 1241. Intended to be taken with MUT 1112.


MUT 2246  AS-MUSIC 1(0,2)  Ear Training and Sight Singing IIB: PR: MUT 2246. Continuation of MUT 2246. Intended to be taken with MUT 2116.

MUT 2247  AS-MUSIC 1(0,2)  Ear Training and Sight Singing IIB: PR: MUT 2246. Continuation of MUT 2246. Intended to be taken with MUT 2117.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>MUT 2960</td>
<td>AS-MUSIC</td>
<td>0(1,0)</td>
<td>Demonstration of basic skills in ear-training. Required of Music majors. May repeat one time. Graded S/U.</td>
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<tr>
<td>MUT 2961</td>
<td>AS-MUSIC</td>
<td>0(1,0)</td>
<td>Demonstration of basic skills in part-writing, visual analysis, counterpoint, instrumentation and form. Required for Music majors. May repeat one time. Graded S/U.</td>
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<tr>
<td>MUT 2962</td>
<td>AS-MUSIC</td>
<td>0(1,0)</td>
<td>Demonstration of basic skills in ear-training. Required of Music majors. May repeat one time. Graded S/U.</td>
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<tr>
<td>MVB 1211</td>
<td>AS-MUSIC</td>
<td>1(0,1)</td>
<td>Consent of Music Chair. CR: Performing ensemble. Advanced instruction in trumpet. Intended for non-music majors. May be repeated for credit.</td>
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<tr>
<td>MVB 1212</td>
<td>AS-MUSIC</td>
<td>1(0,1)</td>
<td>Consent of Music Chair. CR: Performing ensemble. Advanced instruction in French Hom. Intended for non-music majors. May be repeated for credit.</td>
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<tr>
<td>MVB 1213</td>
<td>AS-MUSIC</td>
<td>1(0,1)</td>
<td>Consent of Music Chair. CR: Performing ensemble. Advanced instruction in trombone. Intended for non-music majors. May be repeated for credit.</td>
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<tr>
<td>MVB 1214</td>
<td>AS-MUSIC</td>
<td>1(0,1)</td>
<td>Consent of Music Chair. CR: Performing ensemble. Advanced instruction in baritone. Intended for non-music majors. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVB 1215</td>
<td>AS-MUSIC</td>
<td>1(0,1)</td>
<td>Consent of Music Chair. CR: Performing ensemble. Advanced instruction in tuba. Intended for non-music majors. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVB 1411</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Major in music or consent of chair; audition. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVB 1412</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Major in music or consent of chair; audition. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVB 1413</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Major in music or consent of chair; audition. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVB 1414</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Major in music or consent of chair; audition. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVB 1415</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Major in music or consent of chair. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVB 2421</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Major in music or consent of chair. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVB 2422</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Major in music or consent of chair. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVB 2423</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Major in music or consent of chair. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVB 2424</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Major in music or consent of chair. May be repeated for credit.</td>
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</tr>
<tr>
<td>MVB 2425</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Major in music or consent of chair. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVB 3431</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Major in music or consent of chair. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVB 3432</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Major in music or consent of chair. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVB 3433</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Major in music or consent of chair. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVB 3434</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Major in music or consent of chair. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVB 3435</td>
<td>AS-MUSIC</td>
<td>2(1,1)</td>
<td>Major in music or consent of chair. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVB 4441</td>
<td>AS-MUSIC</td>
<td>2(2,0)</td>
<td>Methods and materials for teaching instruments in a small group or studio setting.</td>
<td></td>
</tr>
<tr>
<td>MVB 4442</td>
<td>AS-MUSIC</td>
<td>2(2,0)</td>
<td>Methods and materials for teaching instruments in a small group or studio setting.</td>
<td></td>
</tr>
<tr>
<td>MVB 4443</td>
<td>AS-MUSIC</td>
<td>2(2,0)</td>
<td>Methods and materials for teaching instruments in a small group or studio setting.</td>
<td></td>
</tr>
<tr>
<td>MVB 4444</td>
<td>AS-MUSIC</td>
<td>2(2,0)</td>
<td>Methods and materials for teaching instruments in a small group or studio setting.</td>
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</tr>
<tr>
<td>MVB 4445</td>
<td>AS-MUSIC</td>
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<td>Methods and materials for teaching instruments in a small group or studio setting.</td>
<td></td>
</tr>
<tr>
<td>MVB 4446</td>
<td>AS-MUSIC</td>
<td>2(2,0)</td>
<td>Methods and materials for teaching instruments in a small group or studio setting.</td>
<td></td>
</tr>
<tr>
<td>MVB 4447</td>
<td>AS-MUSIC</td>
<td>2(2,0)</td>
<td>Methods and materials for teaching instruments in a small group or studio setting.</td>
<td></td>
</tr>
<tr>
<td>MVB 4448</td>
<td>AS-MUSIC</td>
<td>2(2,0)</td>
<td>Methods and materials for teaching instruments in a small group or studio setting.</td>
<td></td>
</tr>
<tr>
<td>MVB 4449</td>
<td>AS-MUSIC</td>
<td>2(2,0)</td>
<td>Methods and materials for teaching instruments in a small group or studio setting.</td>
<td></td>
</tr>
<tr>
<td>MVB 4450</td>
<td>AS-MUSIC</td>
<td>2(2,0)</td>
<td>Methods and materials for teaching instruments in a small group or studio setting.</td>
<td></td>
</tr>
<tr>
<td>MVB 4451</td>
<td>AS-MUSIC</td>
<td>2(2,0)</td>
<td>Methods and materials for teaching instruments in a small group or studio setting.</td>
<td></td>
</tr>
<tr>
<td>MVB 4452</td>
<td>AS-MUSIC</td>
<td>2(2,0)</td>
<td>Methods and materials for teaching instruments in a small group or studio setting.</td>
<td></td>
</tr>
<tr>
<td>MVB 4453</td>
<td>AS-MUSIC</td>
<td>2(2,0)</td>
<td>Methods and materials for teaching instruments in a small group or studio setting.</td>
<td></td>
</tr>
<tr>
<td>MVB 4454</td>
<td>AS-MUSIC</td>
<td>2(2,0)</td>
<td>Methods and materials for teaching instruments in a small group or studio setting.</td>
<td></td>
</tr>
<tr>
<td>MVB 4455</td>
<td>AS-MUSIC</td>
<td>2(2,0)</td>
<td>Methods and materials for teaching instruments in a small group or studio setting.</td>
<td></td>
</tr>
<tr>
<td>MVK 1111</td>
<td>AS-MUSIC</td>
<td>1(0,2)</td>
<td>Class Piano: Class instruction for beginning piano students. Not open to music majors whose major performing medium is piano.</td>
<td></td>
</tr>
<tr>
<td>MVK 1211</td>
<td>AS-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Piano: CR: Performing ensemble. Advanced instruction in piano. Intended for non-music majors. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVK 1212</td>
<td>AS-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary French Horn: CR: Performing ensemble. Advanced instruction in French Horn. May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>MVK 1213</td>
<td>AS-MUSIC</td>
<td>1(1,1)</td>
<td>Secondary Organ: CR: Performing ensemble. Advanced instruction in French horn. May be repeated for credit.</td>
<td></td>
</tr>
</tbody>
</table>
Performing ensemble. Advanced instruction in organ. Intended for non-music majors. May be repeated for credit.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Pre-Requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVK 4141</td>
<td>AS-MUSIC 2(1,1) Piano</td>
<td>Piano</td>
<td>PR: Major in music or consent of chairperson; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 1413</td>
<td>AS-MUSIC 2(1,1) Organ</td>
<td>Organ</td>
<td>PR: Major in music or consent of chairperson; audition. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 1800</td>
<td>AS-MUSIC 2(2,0) Keyboard Class</td>
<td>Keyboard</td>
<td>PR: MVK 1800. Continuation of Keyboard class I</td>
</tr>
<tr>
<td>MVK 1801</td>
<td>AS-MUSIC 2(2,0) Keyboard Class II</td>
<td>Keyboard</td>
<td>PR: MVK 1800. Continuation of Keyboard class II</td>
</tr>
<tr>
<td>MVK 2121</td>
<td>AS-MUSIC 1(0,2) Class Piano II</td>
<td>Piano I</td>
<td>PR: MVK 1111 or C.I. Continuation of MVK 1111. Not open to music majors whose major performing medium is piano.</td>
</tr>
<tr>
<td>MVK 2421</td>
<td>AS-MUSIC 2(1,1) Piano II</td>
<td>Piano II</td>
<td>PR: MVK 1411 and competence determined by faculty jury. Continuation of MVK 1411. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 2423</td>
<td>AS-MUSIC 2(1,1) Organ II</td>
<td>Organ II</td>
<td>PR: MVK 1413 and competence determined by faculty jury. Continuation of MVK 1413. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 3131</td>
<td>AS-MUSIC 1(0,2) Class Piano III</td>
<td>Piano III</td>
<td>PR: MVK 1121 or C.I. Continuation of MVK 1121.</td>
</tr>
<tr>
<td>MVK 3431</td>
<td>AS-MUSIC 2(1,1) Piano III</td>
<td>Piano III</td>
<td>PR: MVK 2421 and competence determined by faculty jury. Continuation of MVK 2421. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 3433</td>
<td>AS-MUSIC 2(1,1) Organ III</td>
<td>Organ III</td>
<td>PR: MVK 2423 and competence determined by faculty jury. Continuation of MVK 2423. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 4141</td>
<td>AS-MUSIC 1(0,2) Class Piano IV</td>
<td>Piano IV</td>
<td>PR: MVK 1131 or C.I. Continuation of MVK 1131.</td>
</tr>
<tr>
<td>MVK 4441</td>
<td>AS-MUSIC 2(1,1) Piano IV</td>
<td>Piano IV</td>
<td>PR: MVK 3431 and competence determined by faculty jury. Continuation of MVK 3431. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 4443</td>
<td>AS-MUSIC 2(1,1) Organ IV</td>
<td>Organ IV</td>
<td>PR: MVK 3433 and competence determined by faculty jury. Continuation of MVK 3433. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 4640</td>
<td>AS-MUSIC 1(1,0) Piano Pedagogy</td>
<td>Piano Pedagogy</td>
<td>PR: C.I. Methods, materials for teaching individuals and classes of children and adults beginning to intermediate levels; demonstration and observation of procedures. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 4641</td>
<td>AS-MUSIC 1(1,0) Piano Pedagogy II</td>
<td>Piano Pedagogy II</td>
<td>PR: C.I. Continuation of MVK 4640. Emphasis on intermediate through advanced levels. May be repeated for credit.</td>
</tr>
<tr>
<td>MVK 4960</td>
<td>AS-MUSIC 0(1,0) Piano Proficiency Exam</td>
<td>Piano Proficiency Exam</td>
<td>PR: C.I. Demonstration of piano skills in basic repertoire, sight-reading, harmonization and transposition. Required of Music majors. May repeat one time. Graded S/U.</td>
</tr>
</tbody>
</table>

Revised exam: May be repeated for credit.

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MVK 5451 | AS-MUSIC 2(1,0) Piano V | Piano V | PR: Graduate status or senior standing and C.I. May be repeated for credit. |
MVK 5453 | AS-MUSIC 2(1,0) Organ V | Organ V | PR: Graduate status or senior standing and C.I. May be repeated for credit. |
MVO 1214 | AS-MUSIC 1(0,1) Secondary Recorder | Secondary Recorder | PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in recorder. Intended for non-music majors. May be repeated for credit. |
MVO 5250 | AS-MUSIC 1(0,1) Advanced Secondary Instruction | Advanced Secondary Instruction | PR: Graduate status or senior standing, and C.I. Advanced instructional techniques on a secondary instrument or in voice. May be repeated for credit. |
MVP 1211 | AS-MUSIC 1(0,1) Secondary Percussion | Secondary Percussion | PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in percussion. Intended for non-music majors. May be repeated for credit. |
MVP 1411 | AS-MUSIC 2(1,1) Percussion I | Percussion I | PR: Major in music or consent of chair; audition. May be repeated for credit. |
MVP 2421 | AS-MUSIC 2(1,1) Percussion II | Percussion II | PR: Major in music or consent of chair; audition. May be repeated for credit. |
MVP 3431 | AS-MUSIC 2(1,1) Percussion III | Percussion III | PR: Major in music or consent of chair; audition. May be repeated for credit. |
MVP 3630 | AS-MUSIC 2(2,0) Percussion Pedagogy | Percussion Pedagogy | PR: Music major, C.I. Teaching methods and materials for percussion students and groups. |
MVP 4441 | AS-MUSIC 2(1,1) Percussion IV | Percussion IV | PR: Major in music or consent of chair; audition. May be repeated for credit. |
MVP 5451 | AS-MUSIC 2(1,0) Percussion V | Percussion V | PR: Graduate status or senior standing and C.I. May be repeated for credit. |
MVS 1211 | AS-MUSIC 1(0,1) Secondary Violin | Secondary Violin | PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in violin. Intended for non-music majors. May be repeated for credit. |
MVS 1212 | AS-MUSIC 1(0,1) Secondary Cello | Secondary Cello | PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in cello. Intended for non-music majors. May be repeated for credit. |
MVS 1214 | AS-MUSIC 1(0,1) Secondary Baritone | Secondary Baritone | PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in baritone. Intended for non-music majors. May be repeated for credit. |
MVS 1215 | AS-MUSIC 1(0,1) Secondary Tenor | Secondary Tenor | PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in tenor. Intended for non-music majors. May be repeated for credit. |
MVS 1216 | AS-MUSIC 1(0,1) Secondary Guitar | Secondary Guitar | PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in guitar. Intended for non-music majors. May be repeated for credit. |
MVS 1411 | AS-MUSIC 2(1,1) Violin I | Violin I | PR: Major in music or consent of chair; audition. May be repeated for credit. |
MVS 1412 | AS-MUSIC 2(1,1) Viola I | Viola I | PR: Major in music or consent of chair; audition. May be repeated for credit. |
MVS 1413 | AS-MUSIC 2(1,1) Cello I | Cello I | PR: Major in music or consent of chair; audition. May be repeated for credit. |
MVS 1414 | AS-MUSIC 2(1,1) Bass I | Bass I | PR: Major in music or consent of chair; audition. May be repeated for credit. |
MVS 1415 | AS-MUSIC 2(1,1) Harp I | Harp I | PR: Major in music or consent of chair; audition. May be repeated for credit. |
MVS 1416 | AS-MUSIC 2(1,1) Guitar I | Guitar I | PR: Major in music or consent of chair; audition. May be repeated for credit. |
MVS 2421 | AS-MUSIC 2(1,1) Violin II | Violin II | PR: MVS 1411 and competence determined by faculty jury. Continuation of MVS 1411. May be repeated for credit. |
MVS 2422 | AS-MUSIC 2(1,1) Viola II | Viola II | PR: MVS 1412 and competence determined by faculty jury. Continuation of MVS 1412. May be repeated for credit. |
MVS 2423 | AS-MUSIC 2(1,1) Cello II | Cello II | PR: MVS 1413 and competence determined by faculty jury. Continuation of MVS 1413. May be repeated for credit. |
MVS 2424 | AS-MUSIC 2(1,1) Bass II | Bass II | PR: MVS 1414 and competence determined by faculty jury. Continuation of MVS 1414. May be repeated for credit. |
MVS 2425 | AS-MUSIC 2(1,1) Harp II | Harp II | PR: MVS 1415 and competence determined by faculty jury. Continuation of MVS 1415. May be repeated for credit. |
MVS 2426 | AS-MUSIC 2(1,1) Guitar II | Guitar II | PR: MVS 1416 and competence determined by faculty jury. Continuation of MVS 1416. May be repeated for credit. |
MVS 3431 | AS-MUSIC 2(1,1) Secondary Piano | Secondary Piano | PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in piano. Intended for non-music majors. May be repeated for credit. |
MVS 3432 | AS-MUSIC 2(1,1) Violin III | Violin III | PR: MVS 2421 and competence determined by faculty jury. Continuation of MVS 2421. May be repeated for credit. |
MVS 3433 | AS-MUSIC 2(1,1) Viola III | Viola III | PR: MVS 2422 and competence determined by faculty jury. Continuation of MVS 2422. May be repeated for credit. |
MVS 3434 | AS-MUSIC 2(1,1) Cello III | Cello III | PR: MVS 2423 and competence determined by faculty jury. Continuation of MVS 2423. May be repeated for credit. |
### UCF Courses and Descriptions

**Bass III:** PR: MVS 2424 and competence determined by faculty jury. Continuation of MVS 2424. May be repeated for credit.

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVS 3435</td>
<td>AS-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.</td>
</tr>
<tr>
<td>MVS 3436</td>
<td>AS-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.</td>
</tr>
<tr>
<td>MVS 4441</td>
<td>AS-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.</td>
</tr>
<tr>
<td>MVS 4442</td>
<td>AS-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.</td>
</tr>
<tr>
<td>MVS 4443</td>
<td>AS-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.</td>
</tr>
<tr>
<td>MVS 4444</td>
<td>AS-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.</td>
</tr>
<tr>
<td>MVS 4445</td>
<td>AS-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.</td>
</tr>
<tr>
<td>MVS 4446</td>
<td>AS-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.</td>
</tr>
<tr>
<td>MVS 4640</td>
<td>AS-MUSIC</td>
<td>2(2,0)</td>
<td>String Pedagogy: PR: Music major and C.I. Methods and materials for teaching string instruments in a small group or studio setting.</td>
</tr>
<tr>
<td>MVS 5451</td>
<td>AS-MUSIC</td>
<td>2(1,0)</td>
<td>Violin V: PR: Graduate status or senior standing and C.I. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 5452</td>
<td>AS-MUSIC</td>
<td>2(1,0)</td>
<td>Viola V: PR: Graduate status or senior standing and C.I. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 5453</td>
<td>AS-MUSIC</td>
<td>2(1,0)</td>
<td>Cello V: PR: Graduate status or senior standing and C.I. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 5454</td>
<td>AS-MUSIC</td>
<td>2(1,0)</td>
<td>Bass V: PR: Graduate status or senior standing and C.I. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 5455</td>
<td>AS-MUSIC</td>
<td>2(1,0)</td>
<td>Harp V: PR: Graduate status or senior standing and C.I. May be repeated for credit.</td>
</tr>
<tr>
<td>MVS 5456</td>
<td>AS-MUSIC</td>
<td>2(1,0)</td>
<td>Guitar V: PR: Graduate status or senior standing and C.I. May be repeated for credit.</td>
</tr>
</tbody>
</table>

**MVV 1111** AS-MUSIC 1(0,1)  
Class Voice: Class instruction in beginning voice. May be repeated for credit.

**MVV 1411** AS-MUSIC 2(1,1)  
Voice I: PR: Major in music or consent of chair; audition. May be repeated for credit.

**MVV 1873** AS-MUSIC 1(0,1)  

**MVV 2322** AS-MUSIC 1(1,0)  
Singing Broadway: PR: Concurrent enrollment in MVV 1411 or MVV 2421 or MVV 3431 or MVV 4441. Hearing and singing the American music called “Broadway.” Students learn singing techniques utilizing principles of the Italian “Bel Canto” school. May be repeated for credit.

**MVV 2421** AS-MUSIC 2(1,1)  
Voice II: PR: MVV 1411 and competence determined by faculty jury. Continuation of MVV 1411. Major in music or consent of chair; audition. Private and class lessons. May be repeated for credit.

**MVW 1411** AS-MUSIC 2(1,1)  
Harp I: PR: MVW 2421 and competence determined by faculty jury. Continuation of MVW 2421. May be repeated for credit. Materials & Supply fee: $20.00

**MVW 1412** AS-MUSIC 2(1,1)  
Flute I: PR: Major in music or consent of chair; audition. May be repeated for credit.

**MVW 1413** AS-MUSIC 2(1,1)  
Clarinet I: PR: Major in music or consent of chair; audition. May be repeated for credit.

**MVW 1414** AS-MUSIC 2(1,1)  
Bassoon I: PR: Major in music or consent of chair; audition. May be repeated for credit.

**MVW 1415** AS-MUSIC 2(1,1)  
Saxophone I: PR: Major in music or consent of chair; audition. May be repeated for credit.

**MVW 2421** AS-MUSIC 2(1,1)  
Flute II: PR: MVW 1411 and competence determined by faculty jury. Continuation of MVW 1411. May be repeated for credit.

**MVW 2422** AS-MUSIC 2(1,1)  
Oboe I: PR: MVW 1412 and competence determined by faculty jury. Continuation of MVW 1412. May be repeated for credit.

**MVW 2423** AS-MUSIC 2(1,1)  
Clarinet II: PR: MVW 1413 and competence determined by faculty jury. Continuation of MVW 1413. May be repeated for credit.

**MVW 2424** AS-MUSIC 2(1,1)  
Bassoon II: PR: MVW 1414 and competence determined by faculty jury. Continuation of MVW 1414. May be repeated for credit. Materials & Supply fee: $20.00

**MVW 2425** AS-MUSIC 2(1,1)  
Saxophone II: PR: MVW 1415 and competence determined by faculty jury. Continuation of MVW 1415. May be repeated for credit.

**MVW 3431** AS-MUSIC 2(1,1)  
Flute II: PR: MVW 2421 and competence determined by faculty jury. Continuation of MVW 2421. May be repeated for credit.

**MVW 3432** AS-MUSIC 2(1,1)  
Oboe II: PR: MVW 2422 and competence determined by faculty jury. Continuation of MVW 2422. May be repeated for credit.

**MVW 3433** AS-MUSIC 2(1,1)  
Clarinet III: PR: MVW 2423 and competence determined by faculty jury. Continuation of MVW 2423. May be repeated for credit.

**MVW 3434** AS-MUSIC 2(1,1)  
Bassoon III: PR: MVW 2424 and competence determined by faculty jury. Continuation of MVW 2424. May be repeated for credit.

**MVW 3435** AS-MUSIC 2(1,1)  
Saxophone III: PR: MVW 2425 and competence determined by faculty jury. Continuation of MVW 2425. May be repeated for credit.

**MVW 3630** AS-MUSIC 2(2,0)  
Woodwind Pedagogy: PR: C.I. Methods, materials for teaching individuals and woodwind ensembles.

**MVW 4441** AS-MUSIC 2(1,1)  
Flute IV: PR: MVW 3431 and competence determined by faculty jury. Continuation of MVW 3431. May be repeated for credit.
ship between client characteristics, client health care provider interactions and health care outcomes in the elderly.

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.

NGR 5637 HPA-NURS 3(3,0) Advanced Practice Nursing in Rural Settings: PR: Graduate student in COHPA. Focus is on advance practice nursing in rural environments and delivery services within constraints of sparse resources and geographical remoteness.

NGR 5638 HPA-NURS 3(3,0) Health Promotion: PR: Baccalaureate degree or C.I. Exploration and analysis of concepts, theories, research evidence, clinical assessment and interventions for health promotion and wellness.

NGR 5660 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.

NGR 5714 HPA-NURS 3(3,0) Clinical Teaching Strategies for Health Professional Education: PR: EDG 6238 or Teaching Strategies for Health Professionals, or C.I. In depth of study of the development, implementation, and evaluation of clinical education programs for health profession students. May be repeated for credit.

NGR 5715 HPA-NURS 3(3,0) Instructional Technology Resources for Health Professional Education: PR: EDG 6238, Teaching Strategies for Health Professionals, or C.I. Analysis of effective teaching learning strategies with emphasis on developing techniques for teaching through technology resources.

NGR 5720 HPA-NURS 3(3,0) Organizational Dynamics: PR: Baccalaureate Degree in Nursing 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.

NGR 5744 HPA-NURS 1(1,0) Health Care Systems, Policy and Health Professionals: PR: Admission to the MSN program or C.I. Examination of social responses to health and illness, health care systems and policies and the role of advanced practice nurses.

NGR 5745 HPA-NURS 1(1,0) Professional Obligations and Activities of Advanced Practice Nursing: PR: NGR 5746 (Roles and Issues in Advanced Practice Nursing II). Examine professional obligations of advanced practice nursing. Opportunity to develop skills for taking certification exam.

NGR 5746 HPA-NURS 1(1,0) Cultural, legal, ethical, and political issues of Advanced Practice Nursing: PR: Baccalaureate degree in Nursing. Examine legal, ethical and political issues related to advanced practice nursing.

NGR 5791 HPA-NURS 3(3,0) 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.

NGR 5800 HPA-NURS 4(4,0) Nursing Theory/Research I: PR: Baccalaureate degree in Nursing or NUR 4836, undergraduate statistics course or C.I. Explores and analyzes the conceptual and theoretical bases of nursing, examines and critiques research designs and methods commonly used in nursing research.

NGR 5801 HPA-NURS 3(3,0) Research Methodology for Advanced Practice Nursing: PR: Undergraduate Research Methods and Statistics or C.I. 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.

NGR 5871 HPA-NURS 3(3,0) Health Care Informatics: PR: Baccalaureate in health related field or C.I. Use of information systems, clinical data management, communication strategies, and decision-making models.

NGR 5880 HPA-NURS 3(3,0) Professional Ethics: PR: C.I. Clinical cases and other professional ethical issues related to codes of conduct and research; application of ethical principles. May be repeated for credit.

NGR 5930 HPA-NURS 3(3,0) Issues in Health Care for the Homeless: PR: Pre-senior level baccalaureate status or admission to the graduate program; C.I. Emphasis on socioeconomic, political, nursing, medical, health practice and research related to care of the homeless.

NGR 5931 HPA-NURS 3(3,0) Interdisciplinary Care at End-of-Life: PR: Graduate Status or C.I. Examination of interdisciplinary roles and strategies for enabling patients, families, and caregivers to approach end-of-life free from avoidable distress and suffering.

NUR 1015 HPA-NURS 3(3,0) Nursing as a Profession: Professional nursing roles in contemporary society covering a range of topics using discourse methodology that forms a foundation for nursing and health care.

NUR 3026L HPA-NURS 1(0,2) Therapeutic Interventions for Health Professionals: PR: Admission to Nursing Program. Theoretical rationale and psychomotor development for therapeutic interventions in nursing practice. Graded S/U. Materials & Supply fee: $45.00.

NUR 3065 HPA-NURS 2(2,0) Health Assessment: PR: or CR: NUR 3065L, and admission to the School of Nursing or C.I. Concepts of health assessment of clients.

NUR 3065L HPA-NURS 1(0,1) Health Assessment Lab: CR: NUR 3065 and admission to the School of Nursing or C.I. Clinical application of concepts and techniques of health assessment of clients.

NUR 3128 HPA-NURS 5(5,0) Pathophysiology and Pharmacology for Nursing Practice: PR: Admission to the School of Nursing. Concepts and nursing care applications of the pathophysiological basis of illness, and principles of pharmacology.

NUR 3165 HPA-NURS 3(3,0) Critical Inquiry: PR: STA 2014C or 2023; NUR 3805 and RN status or NUR 3065. A study of approaches to problematic situations in nursing. Selected experiences in investigating, analyzing, and interpreting nursing research.
**UCF Courses and Descriptions**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3617</td>
<td>HPA-NURS 1(0,2) Accelerated Nursing Research Seminar: PR: Admission to Accelerated BSN Option; previous undergraduate or graduate research course with approval from the SON. NUR 3295, NUR 3258L, NUR 3129. Accelerated study of systematic approaches to problematic situations in nursing. Selected experiences in investigating, analyzing, and interpreting nursing research and nursing issues.</td>
</tr>
<tr>
<td>NUR 3235</td>
<td>HPA-NURS 5(5,0) Promoting Physical and Mental Health in the Community: PR: Completion of all Jr. lev first semester courses or C.I. Biopsychosocial nursing interventions in physical and mental health problems with emphasis on family-centered care in the community.</td>
</tr>
<tr>
<td>NUR 3235L</td>
<td>HPA-NURS 4(0,4) Clinical Practice in Promoting Physical and Mental Health in the Community: PR: Completion of all Jr. lev first semester courses or C.I. Clinical application of biopsychosocial nursing interventions in physical &amp; mental health problems with emphasis on family-centered care in the community. Graded S/U. Materials &amp; Supply fee: $45.00</td>
</tr>
<tr>
<td>NUR 3616</td>
<td>HPA-NURS 3(3,0) Promoting Healthy Families Across the Lifespan: PR: Admission to the School of Nursing. Theoretical foundations related to primary care nursing practice with healthy families across the lifespan, including common health concerns related to childbearing, childrearing, adulthood, and aging.</td>
</tr>
<tr>
<td>NUR 3616L</td>
<td>HPA-NURS 3(0,3) Clinical Practice in Promoting Healthy Families: PR: Admission to the School of Nursing. Primary care clinical nursing practice in community settings with healthy families across the lifespan, including common health concerns related to childbearing, childrearing, adulthood and aging. Graded S/U. Materials &amp; Supply fee: $45.00</td>
</tr>
<tr>
<td>NUR 3617</td>
<td>HPA-NURS 3(3,0) Promoting Healthy Communities: PR: Admission to the School of Nursing. Exploration of community-oriented nursing practice, including epidemiological, community health, nursing, economic, and health care system perspectives. May be repeated for credit.</td>
</tr>
<tr>
<td>NUR 3637</td>
<td>HPA-NURS 5(5,0) Accelerated Promoting Healthy Families and Communities: PR: Admission to Accelerated Second Degree BSN Option; NUR 3065, NUR 3026L, NUR 3825, NUR 3637L. Application of concepts of family and community nursing as it relates to health across the lifespan including childbearing, childrearing, adulthood, and aging.</td>
</tr>
<tr>
<td>NUR 3637L</td>
<td>HPA-NURS 2(0,2) Accelerated Clinical Practice in Promoting Healthy Families and Communities: PR: Admission to Accelerated Second Degree BSN option; Coreqs: NUR 3637, NUR 3026L, NUR 3065, NUR 3825. Primary care nursing practice with healthy communities and families across the lifespan, including common health promotion activities related to childbearing, childrearing, adulthood, and aging. Graded S/U. Materials &amp; Supply fee: $40.00</td>
</tr>
<tr>
<td>NUR 3795</td>
<td>HPA-NURS 3(3,0) Principles of Oncology Nursing: PR: C.I. or Junior standing. Basic principles and concepts in oncology. Focus on cancer as it affects individuals and families. Emphasis on cancer treatment, symptoms management and psychosocial response.</td>
</tr>
<tr>
<td>NUR 3805</td>
<td>HPA-NURS 3(3,0) Transitional Concepts in Nursing I: PR: Florida RN status. Exploration of issues and theories related to professional nursing practice to facilitate transition of RN to baccalaureate level of nursing practice.</td>
</tr>
<tr>
<td>NUR 3806</td>
<td>HPA-NURS 1(1,0) Professional Socialization Seminar: PR: NUR 3065 and C.I. Application of library utilization and professional writing skills, critical thinking and stress management principles to the beginning role of the professional nurse.</td>
</tr>
<tr>
<td>NUR 3825</td>
<td>HPA-NURS 2(2,0) The Role of the Professional Nurse: PR: Admission to the School of Nursing. Examination of the role and function of the professional nurse, including professional standards, legal and practice issues.</td>
</tr>
<tr>
<td>NUR 3826H</td>
<td>HPA-NURS 3(3,0) Bioethical and Legal Issues in Health Care -Honors: PR: Permission of Honors. Includes questions concerning human values, legal and ethical questions arising in health care delivery policy issues and professional practice among licensed health care professionals</td>
</tr>
<tr>
<td>NUR 3936</td>
<td>HPA-NURS 3(2,2) International Perspectives of Nursing and Health Care: PR: Enrolled in School of Nursing or C.I. Comparative analysis of professional nursing practice and health care system in the United States and selected countries. May be repeated for credit.</td>
</tr>
<tr>
<td>NUR 4084</td>
<td>HPA-NURS 3(3,0) Transitional Concepts in Nursing II: PR: NUR 3805, NUR 3065, NUR 3165. Enhancement of knowledge from basic Registered Nurse programs and continuation of study from NUR 3805.</td>
</tr>
<tr>
<td>NUR 4196</td>
<td>HPA-NURS 3(3,0) Crisis Intervention: PR: Completion of PSY 2012, SYG 2000 or ANT 2000. Crisis theory and techniques; recognition and intervention in crisis events. Applicable to all areas of nursing and all helping professions.</td>
</tr>
<tr>
<td>NUR 4257</td>
<td>HPA-NURS 3(3,0) Introduction to Critical Care Nursing: PR: RN status or C.I. Theories and principles of comprehensive nursing care of individuals and families in critical care settings.</td>
</tr>
<tr>
<td>NUR 4286</td>
<td>HPA-NURS 3(3,0) Gerontologic Nursing: PR: NUR 4286 or RN status or C.I. Theories and principles related to the promotion, maintenance, and restoration of health in older adults in various settings.</td>
</tr>
<tr>
<td>NUR 4525</td>
<td>HPA-NURS 2(2,0) Nursing Intervention in Mental Illness: PR: Completion of all Jr. lev Fall and Spring courses or C.I. Nursing clinical application of theory, treatment modalities, and skills specific to clients with a primary diagnosis of mental illness.</td>
</tr>
<tr>
<td>NUR 4525L</td>
<td>HPA-NURS 1(0,1) Clinical Practice with Mentally Ill Clients: PR: Completion of all Jr. lev Fall and Spring courses or C.I. Clinical practice in acute healthcare settings serving clients with a primary diagnosis of mental illness. Graded S/U. Materials &amp; Supply fee: $15.00</td>
</tr>
<tr>
<td>NUR 4636</td>
<td>HPA-NURS 3(3,0) Community as the Continuum of Care: PR: Completion of all Jr. lev Fall and Spring courses or C.I. Theories and principles of community health nursing and application to clinical practice within a community oriented framework for nursing care.</td>
</tr>
<tr>
<td>NUR 4636L</td>
<td>HPA-NURS 2(0,2) Clinical for Community as the Continuum of Care: PR: Completion of all Jr. lev Fall and Spring 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. Materials &amp; Supply fee: $45.00</td>
</tr>
<tr>
<td>NUR 4639</td>
<td>HPA-NURS 2(2,0) Accelerated Community as a Continuum of Care: PR: NUR 4745, NUR 4745L, NUR 4525, NUR 4525L, NUR 3167. CR: NUR 4945L, NUR 4829, NUR 4636L. Focus on knowledge needed in a community oriented practice model to effect changes in health status and risk, and self care capacity of target population.</td>
</tr>
<tr>
<td>NUR 4675</td>
<td>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.</td>
</tr>
<tr>
<td>NUR 4676</td>
<td>HPA-NURS 3(3,0) Health Care of Special Populations: Homeless: PR: Completion of Jr. level Fall and Spring courses or C.I. Nursing care of individuals and families experiencing acute, unstable, or life threatening health problems.</td>
</tr>
<tr>
<td>NUR 4745</td>
<td>HPA-NURS 4(4,0) Nursing Care of Clients with Acute and Life-threatening Illness across Lifespan: PR: Completion of all Jr. lev Fall and Spring courses or C.I. Nursing care of individuals and families experiencing acute, unstable, or life threatening health problems.</td>
</tr>
<tr>
<td>NUR 4745L</td>
<td>HPA-NURS 4(0,4) Clinical Practice in Caring for Clients with Acute Illness: PR: Completion of Jr. lev 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. Materials &amp; Supply fee: $45.00</td>
</tr>
<tr>
<td>NUR 4812C</td>
<td>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 4636, NUR 4636L, NUR 4637, NUR 4637. 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.</td>
</tr>
<tr>
<td>NUR 4828</td>
<td>HPA-NURS 2(0,2) Professional Issues and Development: PR: RN status, or C.I. CR: NUR 4945L, NUR 4827. Analysis of current issues relating to health care delivery and the baccalaureate graduate entering professional nursing practice.</td>
</tr>
<tr>
<td>NUR 4829</td>
<td>HPA-NURS 3(3,0) Accelerated Transitioning into Professional Practice as a Leader: PR: NUR 4745, NUR 4745L, NUR 4525, NUR 4252L, NUR 5137. CR: NUR 4945L, NUR 4839, NUR 4636L. Application of leadership and management principles to the beginning role of the professional nurse.</td>
</tr>
<tr>
<td>NUR 4835</td>
<td>HPA-NURS 2(2,0) Role Transition: PR: Completion of all Jr. lev Fall and Spring courses or C.I. Professional development and role transition of the baccalaureate graduate entering professional nursing practice.</td>
</tr>
<tr>
<td>NUR 4836</td>
<td>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.</td>
</tr>
</tbody>
</table>
| NUR 4837 | HPA-NURS 3(3,0) Health Care Issues, Policy, and Economics: PR: Completion of all Jr. lev Fall and Spring courses or C.I. Study of selected health care policy issues related to the financing, organization, and delivery of nursing services to

NUR 4905C HPA-NURS Variable Nursing Independent Study: PR: NUR 4756C. An opportunity for in-depth study in an area of special interest to the student.

NUR 4906 HPA-NURS Variable Independent Study: Directed Study.

NUR 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.

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.

NUR 4934 HPA-NURS 3(3,0) Holistic Nursing: Explore lived experience of health-wellness, illness-disease focusing on mind-body-spirit, transpersonal healing and complementary interventions to maximize nursing care outcomes.

NUR 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.

NUR 4942 HPA-NURS 3(0,9) Selected Nursing Practicum: PR: NUR 4756C and 4758C, An opportunity for an in-depth clinical study in an area of special interest to the student. Graded S/U.

NUR 4945L HPA-NURS 4(0,4) Directed Nursing Practice: PR: RN status, or C.I. CR: NUR 4827, NUR 4828, In-depth study of one area of clinical nursing practice. Graded S/U.

NUR 4971H HPA-NURS 3(3,0) Thesis or Project Works-Honors: PR: Permission of Honors. This course provides the student with faculty mentoring through the process of writing and defending the Honors Thesis or Project.

OCE 3008 AS-BIOL 3(3,0) Oceanography: PR: BSC 2010C, CHM 2045C, and CHM 2046. Biological, physical and chemical oceanography.

OCE 3490 OPT-OPT 3(3,0) Nanophotonics: PR: PHY2049 or C.I. Optical/photonics processes on nano scale and interactions with elements of physics & engineering.

OCE 5041 ECS-ECE 3(3,0) Introduction to Wave Optics: PR: EEL 4440 or PHY 4424 or C.I. Electromagnetic foundation of light waves as applied to reflection, diffraction, interference, polarization, coherence, and guided waves.

OCE 5050 OPT-OPT 3(3,0) Fundamentals and Applications of Photonics: PR: Graduate standing or C.I. Introduction to optics and photonics emphasizing the concepts governing applications of current interest for science and engineering senior and first-year graduate students and working scientists and engineers.

OCE 5051L ECS-ECE 3(1,4) Electro-Optics Laboratory: PR: EEL 4440 or OSE 5041 or C.I. Study of laboratory techniques for optical measurements and performance of measurements on electro-optic devices to determine operational characteristics.

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.

OCE 5115 AS-PHYS 3(3,0) Interference and Diffraction: PR: Graduate status or senior standing, or C.I. Interference of light, optical interference, Fraunhofer and Fresnel scalar diffraction, diffraction gratings, temporal coherence, spatial coherence, and partial coherence.


OCE 5234L OPT-OPT 3(1,3) Applied Optics Laboratory: PR: Graduate Standing or C.I. Laboratory Techniques for observing optical phenomena and quantitative experimental study of geometrical optics, optical interferometry, diffraction, and image processing.

OCE 5312 OPT-OPT 3(3,0) Fundamentals of Optical Science: PR: Graduate standing or C.I. Microscopic theory of absorption, dispersion, and refraction of materials; wave propagation, introduction to lasers and nonlinear optics.

OCE 5313 OPT-OPT 3(3,0) Materials for Optical Systems: PR: Graduate standing or C.I. Course will review key attributes of optical materials that allow them to be used in a range of applications, devices and components in optical systems.

OCE 5414 ECS-ECE 3(3,0) Fundamentals of Optoelectronic Devices: PR: Graduate standing or C.I. Operation, methods of fabrication, applications, and limitations of various optoelectronic devices including quantum well semiconductor devices.

OCE 5421 OPT-OPT 3(3,0) Integrated Optics: PR: Graduate standing or C.I. The propagation and loss characteristics in dielectric optics waveguides, fundamental concepts of both integrated and fiber optic devices, numerical modeling of complex integrated optical components.

OCE 5511 AS-PHYS 3(3,0) Laser Principles: PR: PHY 3101, MAP 2302, PHY 4424, graduate status or senior standing, or C.I. Classical introduction to the basic principles of laser gain media, properties of resonators and modes, description of specific laser systems.

OCE 5630C ECS-ECE 3(2,1) Thin Film Optics: PR: PHY 4424 or EEL 4440 and OSE 5041 or OSE 5650C. Principles of thin film optics and its applications in optical, electro-optical, and laser systems.

PAD 3003 HPA-PUB 3(3,0) Public Administration in American Society: PR: POS 2041. An examination of the basic environment, culture, and organization of public administration in the United States.

PAD 3040 HPA-PUB 3(3,0) Ethics and Values in Public Administration: PR: Junior standing or C.I. Ethical dimensions of public administration. Develops the awareness, skills, and value framework to act ethically.

PAD 3330 HPA-PUB 3(3,0) Urban and Regional Planning: PR: PAD 3003 or C.I. Planning topics such as land-use, and comprehensive and urban planning as they relate to the physical aspects of the natural and human environment.

PAD 4034 HPA-PUB 3(3,0) The Administration of Public Policy: PR: ECO 2023. Problems of values, interests, and objectives and their impact on the administration of public programs, stressing the interplay between social values, policies and administration.

PAD 4104 HPA-PUB 3(3,0) Administrative Theory: A review of the behavioral aspects of the administrative process, its impact on organizational goal achievement and on supervisory strategies. Some social and structural pathologies affecting administrative practice.

PAD 4110 HPA-PUB 3(3,0) Intergovernmental Administration: Various approaches to studying and explaining the American Intergovernmental system. Emphasis on interorganizational activities, i.e., negotiation, cooperation, and coordination within the legal setting.

PAD 4131 HPA-PUB 3(3,0) Public Sector Project Management: Various approaches to managing projects, including using scheduling techniques such as GANTT, CPM, and PERT, as well as team building, facilitating, and leadership skills.

PAD 4144 HPA-PUB 3(3,0) Non-Profit Organizations: PR: PAD 3003 or C.I. The operations of non profit organizations, including working with board of directors, volunteer services, fund-raising and grantmanship, financial management and marketing.

PAD 4147 HPA-PUB 3(3,0) Resource Development in the Nonprofit Sector: PR: Junior status or C.I. Examination of the development and management of human resources and financial resource development in nonprofit organizations is discussed.

PAD 4148 HPA-PUB 3(3,0) Volunteer Management: PR: Junior status or C.I. Examination of recruitment, selection, training and management of volunteers in nonprofit organizations and the application of management theory.

PAD 4153 HPA-PUB 3(3,0) Planning and Improvement for Pub Org: Prepare future leaders for the changing paradigms of the public sector by providing education in a variety of quality related areas.

PAD 4204 HPA-PUB 3(3,0) Fiscal Management: PR: C.I. Analysis of methods of securing public funds, the process of budget making, and techniques of management used in managing public funds.

PAD 4223 HPA-PUB 3(3,0) Public Budgeting: Skills and Techniques: PR: PAD 4204 or C.I. Analytical skills and administrative techniques employed by public budget analysts, focusing on the process of generating and using information.

PAD 4253 HPA-PUB 3(3,0) Community & Economic Development: PR: PAD 3003 or C.I. This course will examine local and regional eco-
Program Evaluation 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.

Survey Research in Public Administration: Introduction to the concepts, design, methodology, computer applications, and data analysis in applied research in the public sector.

Issues in Urban Administration: To provide students with an understanding of public policy and administrative responses to socioeconomic problems within the urban context.

Public Administration Internship: PR: C.I. Internship in municipal, county, state, or federal government, including assignments in such fields as personnel, planning, budget, and fiscal, procurement, and public safety. Graded S/U.

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.

Nonprofit Organizations: 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.

Nonprofit Resource Development: PR: Post-bac status or C.I. Examination of nonprofit status, range of organizations, and application of management theory.

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.

Nonprofit Resource Development: PR: Post-bac status or C.I. Examination of nonprofit status, range of organizations, and application of management theory.
PCB 3063 AS-BIOL 3(3,0) Genetics: PR: BSC 2010C, and CHM 2046, or C.I. Basic principles of heredity as applied to prokaryotes and eukaryotes.

PCB 3063H AS-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.

PCB 3063L AS-BIOL 1(0,3) Genetics Laboratory: PR: PR or CR: PCB 3063 or C.I. Introduction to laboratory techniques of genetics. Materials & Supply 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 immunology, and immune therapy.

PCB 3233L BCBS-M&M 1(0,3) Immunology Laboratory: CR: PCB 3233. Introduction to laboratory techniques in immunology. Materials & Supply fee: $20.00


PCB 3355C AS-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.

PCB 3442 AS-BIOL 3(3,0) Florida Aquatic Ecology: PR: BSC 2010C and BSC 2011C, or C.I. An introduction to aquatic ecology of Florida with emphasis on ponds, lakes, streams, and rivers.

PCB 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.

PCB 3703C BCBS-M&M 4(3,3) Human Physiology: PR: BSC 2010C, CHM 1032 or CHM 2045C. The physiology and interrelationships of organs of the human body. Materials & Supply 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.

PCB 4302C AS-BIOL 4(3,4) Physiochemical Limnology: PR: BSC 2010C and BSC 2011C, or C.I. Limnology and methods for freshwater ecol-

ogy, with respect to physical, and chemical parameters. Materials & Supply fee: $15.00


PCB 4353 AS-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.

PCB 4524 BCBS-M&M 3(3,0) Molecular Biology II: PR: PCB 3522. The processes regulating gene function in procaryotes and eucaryotes; specialized genetic aspects underlying multi-cellular existence; DNA evolution.

PCB 4524H BCBS-M&M 3(3,0) Molecular Biology II-Honors: PR: Permission of Honors and PCB 3522. Same as PCB 4525 with honors level content.

PCB 4529 BCBS-M&M 3(3,0) Experimental Molecular Biology: PR: PCB 3522, CR: PCB 4524. Facilitation of experimental data that leads to the development and understanding of the underlying principles of molecular biology.

PCB 4683 AS-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.

PCB 4683L AS-BIOL 1(0,2) Population Biology and Evolution Lab: PR: CR: PCB 4683. Reading, problem solving and discussion on current topics in evolutionary biology. Materials & Supply fee: $10.00

PCB 4723 AS-BIOL 4(4,0) Animal Physiology: PR: PCB 3023 or C.I. Functions of body processes occurring in animals, with emphasis on vertebrate physiology.

PCB 4805 BCBS-M&M 3(3,0) Endocrinology: PR: PCB 3703C or equivalent; CHM 3211. Mechanisms of action of hormones; interrelationship between the nervous and endocrine systems.

PCB 5045C AS-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. Materials & Supply fee: $15.00

PCB 5107C AS-BIOL 4(4,0) 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, signaling and cell cycle. Materials & Supply fee: $15.00

PCB 5108 AS-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.

PCB 5238 BCBS-M&M 3(3,0) Immunobiology: PR: PCB 3233, PCB 4239. Advanced topics in immune system dysregulation with special emphasis on innate immunity.

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.

PCB 5256C AS-BIOL 4(3,2) Advanced Developmental Biology: PR: PCB 3063 and ZOO 4603J or equivalent, graduate status or senior standing, or C.I. Lecture and literature review of emerging areas in plant and animal developmental biology Materials & Supply 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.

PCB 5326C AS-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. Materials & Supply fee: $15.00

PCB 5328C AS-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. Materials & Supply fee: $15.00

PCB 5435C AS-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. Materials & Supply fee: $45.00

PCB 5480C AS-BIOL 4(3,2) Quantitative Conservation Biology: PR: MAC 2311, PCB 3044, STA 2014C or C.I. Current methods of data analysis and modeling to evaluate biological population dynamics. May be repeated for credit one time.

PCB 5485 AS-BIOL 3(3,0) Models in Ecology: PR: PCB 3044, MAC 2311 (or equivalent), and graduate status or senior standing or C.I. A survey of how simulation models are applied to ecological questions of both a theoretical and managerial nature. Materials & Supply fee: $15.00

PCB 5556 AS-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. Materials & Supply fee: $15.00

PCB 5666C AS-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. Materials & Supply fee: $15.00

PCB 5677 AS-BIOL 3(3,0) Molecular Evolution: PR: PCB 3063 and PCB 4683C, graduate status or senior standing, or C.I. Provides an overview of molecular methods currently used to analyze diversity within and among species.

PCO 4203 AS-PSYCH 4(3,2) Interviewing and Counseling: PR: PSY 2012, PPE 3003, CLP 3143 and C.I. A review of various interviewing and counseling theories and techniques used in Mental Health settings as well as practical experience in interviewing and
counseling procedures.

PEL 2011 ED-TLP 2(1,1)
Basic Volleyball and Softball: The analysis of offensive and defensive alignment, techniques, and strategies.

PEL 2111 ED-TLP 2(1,1)
Bowling: A study of the fundamentals of bowling techniques and the development of skills based on those fundamentals.

PEL 2112 ED-HSW 2(1,1)
Intermediate Bowling: PR: PEL 2111, bowling experience, or average of 140 verification by league sheet. This course provides in-depth information that is necessary for the development of high bowling averages.

PEL 2121 ED-TLP 2(1,1)
Beginning Golf: Performance and application of basic skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport.

PEL 2122 ED-TLP 2(1,1)
Intermediate Golf: PR: PEL 2121 or equivalent competency. Performance and application of advanced skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport.

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.

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.

PEL 2640 ED-TLP 2(1,1)
Basic Football and Basketball: The analysis of offensive and defensive alignment, techniques, and strategies.

PEM 2101 ED-TLP 2(1,1)
Body Development: An in-depth study of individual physical (musculo-skeletal, neuromuscular, cardiorespiratory) fitness. Emphasis on individual diagnosis, principles, procedures, and conduct of related exercise programs.

PEM 2104 ED-TLP 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.

PEM 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.

PEM 2131 ED-TLP 2(1,1)
Strength Resistance Training: Study of fitness and strength development through resistance exercise.

PEM 2171 ED-TLP 2(1,1)
Aerobics: Appropriate rhythmic muscle toning movements that develop aerobic fitness; concepts taught include warm-up, flexibility, stretching, cool down, and heart rate.

PEM 2173 ED-TLP 2(1,1)
Step Aerobics: Appropriate rhythmic muscle toning movements utilizing the step to develop aerobic fitness. Concepts taught include warm-up, flexibility, work-out, and cool-down.
PET 3930. Student teaching in a physical education program under the supervision of a certified classroom teacher.

PET 3941. ED-IP 6(0,16)
Internship I: PR: Senior standing. EDG 4323. Satisfactory completion of the portfolio. Internship assignment under a certified physical education teacher. Half in elementary, half in secondary.

PET 4002. ED-TLP 3(1,2)
Outdoor and Leisure Activities: Study of contemporary outdoor and leisure activities. Course will include but not be limited to the "adventure activity curriculum," camping, water activities, fishing, orienteering, hiking.

PET 4050C. ED-TLP 3(2,1)
Motor Development and Learning: PR: PE Junior standing. An analysis of the theories and factors influencing the motor development of children and the learning of gross and fine motor skills.

PET 4083C. ED-TLP 4(3,3)
Practical Fitness training: PR: PET 4312, PET 4351, PET 2622C, PET 4550, PEM 2171. An in-depth study into fitness-related concepts as they are applied to individuals and groups.

PET 4215. ED-TLP 3(3,0)
Motivational Aspects of Athletic Performance: PR: Coaching minor or C.I. Theories of attitude, motivation, effort, persistence, mental focus, visualization, and an exploration of techniques to enhance athletic performance.

PET 4312. ED-TLP 3(2,1)
Biomechanics: PR: Anatomy. The comprehension and application of anatomical and mechanical principles involved in human movement.

PET 4315C. HPA-HP 3(2,2)
Biomechanics of Sport: PR: PET 4630C. Assessment and recognition of physiological and mechanical aspects of sports and injuries.

PET 4351. ED-CFCS 3(2,1)
Applied Exercise and Human Physiology: An in-depth study of metabolic, neuromuscular, respiratory and cardiovascular physiological concepts and principles with practical application to physical education and sport.

PET 4401. ED-TLP 3(3,0)
Administration and Evaluation in Physical Education: This course is designed to address administrative, measurement and evaluation considerations of physical education programs.

PET 4491. ED-TLP 3(3,0)
Legal Issues in Sports and Fitness: PR: Admission to program or C.I. Examination of the legal issues and problems encountered by sports and fitness professionals.

PET 4550. ED-TLP 3(2,1)
Fitness Assessment: PR: ZOO 3736C or C.I. A study and acquisition of health related fitness, exercise strategies and related assessment techniques.

PET 4603. HPA-HP 3(3,0)
Introduction to Sports Medicine: A comprehensive study of care of sports injuries, including instruction in attitudes, health and conditioning in sports participants. Materials & Supply fee: $33.50.

PET 4604. HPA-HP 3(3,0)
Sports Medicine Field Application: Demonstration and application of the treatment for various sports injuries.

PET 4606. HPA-HP 3(3,0)
Applied Fitness in Sport: PR: PET 3671C. Appreciation and clinical application of fitness regarding athletics.

PET 4624C. HPA-HP 3(2,2)
Recognition and Evaluation of Athletic Injuries I: PR: PET 3620C and PET 3623C. Recognition and evaluation skills required to perform an injury assessment of the lower extremity, spine, and general medical conditions and provision of immediate management.

PET 4625. ED-TLP 3(3,0)

PET 4630C. HPA-HP 4(2,4)
Therapeutic Exercise in Athletic Training: PR: PET 3632C. Rehabilitation processes regarding exercise progression for athletic injury.

PET 4632C. HPA-HP 4(2,4)
Therapeutic Modalities in Athletic Training: PR: PET 4624C. Principles and techniques for applying therapeutic modalities.

PET 4640. ED-TLP 3(3,0)
Adapted Physical Education: Principles and methods of adapting physical education activities and programs for exceptional children and adults; mainstreaming rationale and methods analyzed.

PET 4660C. HPA-HP 3(3,0)
Organization and Administration of Athletic Training: PR: PET 3671C. Administrative knowledge in the athletic training profession.

PET 4672C. HPA-HP 4(0,8)
Practicum in Athletic Training II: PR: PET 3671C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer.

PET 4673C. HPA-HP 4(0,8)
Practicum in Athletic Training III: PR: PET 4672C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer.

PET 4674. HPA-HP 1(1,0)

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.

PET 4724. ED-TLP 3(3,0)
Development and History of Physical Education Curriculum: A study of the factors involved in curriculum development and historical and philosophical considerations of physical education programs.

PET 4763. ED-HSW 3(3,0)
Coaching Methods and Principles: PR: Junior standing. Coaching minor or C.I. Assist students in understanding and conceptually integrating teaching methods/coaching strategies with emphasis given to conditioning and leadership styles.

PET 4823. ED-HSW 3(3,0)

PET 4925. ED-TLP 3-6(0,16)
Sports and Fitness Practicum I: PR: Overall GPA of 2.5 and completion of 2/3 of the Sports and Fitness program requirements. Field experience in a sports and fitness related organization.

PET 4926. ED-TLP 9-12(0,35)
Sports and Fitness Practicum II: PR: Sports & Fitness Practicum I and overall GPA of 2.5. Field experience in a sports and fitness related organization, association, or business.

PET 4943. ED-TLP 12(0,35)
Internship II: PR: Must have completed course work in specialization. Satisfactory completion of the portfolio. Full-time student teaching under a certified elementary or secondary physical education teacher. May be repeated for credit. Graded S/U.

PET 4945. ED-IP 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.

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, neuromuscular, cardiovascular, and respiratory systems during exercise. Emphasis on understanding principles of exercise adaptations and applying those principles to fitness/wellness settings.

PET 5405. ED-CFCS 3(3,0)
Introduction to Sports Administration: PR: C.I. This course will provide an overview of the sports industry. Fundamental leadership administration and research theories as well as information on current issues are emphasized.

PET 5465. ED-CFCS 3(3,0)
Financial Issues in Sports and Fitness: PR: C.I. Examines basic financial concepts including understanding annual reports, developing budgets, financial analysis, and examining methods for increasing revenue and controlling cost in the sport industry.

PET 5466. ED-CFCS 3(3,0)
Marketing and Promoting Sports and Fitness Programs: PR: C.I. Introduces students to all aspects of sports marketing including planning, organizing, marketing, evaluating, and conducting special and sport events.

PET 5635. ED-TLP 3(3,0)
Advanced Human Injuries: PR: PET 2622C or C.I. The application of medical knowledge to sport with the emphasis on preserving the health of an athlete before, during and after performance.

PET 5766. ED-TLP 3(3,0)

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.

PGY 2401C. AS-ART 3(3,2)
Beginning Photography: PR: ART 2201C, ART 2301C or C.I. Introduction to photography with an art emphasis. Materials & Supply fee: $45.00.

PGY 3410C. AS-ART 3(3,2)
Intermediate Photography: PR: ART 2201C, ART 2301C, ART 2401C.
PHI 3700 AS-PHIL 3(3,0) American Philosophy: PR: PHI 2010 or AMH 2010 or AMH 2020 or C.I. A thematic and chronological survey of philosophical, religious, and scientific developments in American thought, with primary focus on the American spirit of individualism and reform.

PHI 3701 AS-PHIL 3(3,0) Native American Philosophy: PR: PHI 2010 or C.I. Academic Native American philosophy in epistemology, political philosophy and environmental studies.

PHI 2010 AS-PHIL 3(3,0) Introduction to Philosophy: Inquiry into the meaning and justification of fundamental ideas and beliefs concerning reality, knowledge, and values; application to relevant topics in ethics, religion, and politics.

PHI 2010H AS-PHIL 3(3,0) Honors Introduction to Philosophy: PR: Permission of Honors. Same as PHI 2010 with honors-level content.

PHI 2011 AS-PHIL 3(3,0) Philosophical Reasoning: A study of reasoning in philosophy: the role of inconsistency, infinite regress arguments, modeling, and system building, discovery procedures, diagonalization, and contract and paradigm case arguments.

PHI 2101 AS-PHIL 3(3,0) Formal Logic I: A study of sentence and predicate logic, with introduction to modal, epistemic, deontic, multi-valued, and indeterministic logics.

PHI 2108 AS-PHIL 3(3,0) Critical Thinking: The logic of conversation, informal fallacies, and reasoning about human action.

PHI 2630 AS-PHIL 3(3,0) Ethics: An examination of the nature of moral problems, judgements and principles, with an emphasis on recent formulations in ethical theory.

PHI 2647 AS-PHIL 3(3,0) Logic and Ethics: PR: PHI 2101 or COT 3100 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.

PHI 3022 AS-PHIL 3(3,0) Sexuality, Gender & Philosophy: PR: WST 2015. PHI 2010, PHI 3123, or C.I. Examines the contributions of poststructural and neopsychoanalytical theories to cultural issues in sexuality and gender.

PHI 3033 AS-PHIL 3(3,0) Philosophy, Religion, and the Environment: PR: Junior standing or C.I. A multicultural treatment of the influence of philosophical and religious views on our understanding of, and relation to, the environment.

PHI 3083 AS-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.

PHI 3320 AS-PHIL 3(3,0) Philosophy of Mind: PR: PHI 2010, PSY 2012, or C.I. Recent and contemporary attempts to understand the relation of mind to body, the relation of consciousness to personhood, and the relation of psychology to neurobiology.


PHI 3451 AS-PHIL 3(3,0) Philosophy of Psychology: PR: Junior standing or C.I. Philosophical assumptions and foundations of major psychological movements plus other philosophically interesting issues.

PHI 3601 AS-PHIL 1(1,0) Practical Wisdom: A radio course in applied ethics which focuses on the human good, dealing with the relationship between means and ends and how they define one another.

PHI 3625 AS-PHIL 3(3,0) Virtual Ethics: PR: COP 3502C or 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.

PHI 3626 AS-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.

PHI 3629 AS-PHIL 3(3,0) Family Values: PR: PHI 2010, PHI 2630, PHI 3670, or WST 3015. Applied ethics examining legal, religious and other cultural prescriptions related to sexuality, marriage, reproduction, child-rearing and other forms of familial relationship and caregiving.

PHI 3638 AS-PHIL 3(3,0) Ethical Issues in the 21st Century: PR: PHI 2010 or C.I. Applications of ethical theory and moral problem-solving to contemporary issues.

PHI 3640 AS-PHIL 3(3,0) Environmental Ethics: PR: Junior standing. Major contemporary views in environmental ethics, including individual and holistic approaches, deep ecology, ecofeminism, and social ecology.

PHI 3648 AS-PHIL 3(3,0) Ethical Implications of the Human Genome Project: PR: BSC 2010C and either PHI 2010 or PHI 2630 or PHI 3670. Ethical issues surrounding the Human Genome Project, including genetic testing, genetic therapies, genetic enhancement, forensics, data banking, and genetic patenting.

PHI 3670 AS-PHIL 3(3,0) Ethical Theory: PR: Junior standing and C.I. Major classical and contemporary topics in ethics, including value theory, utilitarian, deontological, virtue-based and feminist approaches to ethics, rights, and justice; some examination of metaethical issues.

PHI 3683 AS-PHIL 3(3,0) Philosophy of Friendship: PR: One of: PHI 2010, PHI 3670, PHI 3683, or C.I. Philosophical aspects of friendship, focusing on its interpersonal, moral, social, and political significance and implications.

PHI 3684 AS-PHIL 3(3,0) Ways of Living: PR: HUM 2211 or HUM 2230 or C.I. Philosophies of life and the notion of “the good life.”

PHI 3700 AS-PHIL 3(3,0) Philosophy of Religion: PR: REL 2300 or PHI 2010. An examination of basic ideas, beliefs, attitudes, and functions of religion, with emphasis upon questions of conceptual meaning and cognitive justification.

PHI 3720 AS-PHIL 3(3,0) Faith and Reason: PR: REL 2300 or PHI 2010 or C.I. Emergence of two discrete ways of knowing: Faith and Reason.
PHI 3750 AS-PHIL 3(3,0) The Problem of Evil: PR: PHI 2010 or C.I. The traditional problem of evil encompassing philosophical, theological, logical, and natural interpretations and assessments of moral and natural evil.

PHI 3800 AS-PHIL 3(3,0) Aesthetics: PR: PHI 2010, HUM 2220, ARH 2050, or ARH 2051. An investigation into the nature of human artistic experience, with special reference to questions of form, perception, and style.

PHI 3803 AS-PHIL 3(3,0) Philosophy and Creativity: A companion course to PHI 3800, Aesthetics. Examines the empirical and metaphysical claims made for creativity; attempts to account for intuition, genius, and intelligence.

PHI 3805 AS-PHIL 3(3,0) Contemporary Aesthetics: PR: PHI 2010, HUM 2211, HUM 2230, ARH 2050 or ARH 2051. Contemporary themes and arguments about visual art in relationship to current aesthetic theories.

PHI 3941 AS-PHIL 3(1,3) Philosophy Practicum: PR: C.I. Mentor at-risk grade schoolers three hours weekly and participate in a two-hour class every other week, evaluating such work-related concepts as justice and fairness. Pass/Fail grading.

PHI 4221 AS-PHIL 3(3,0) Philosophy of Language: PR: PHI 2010 or C.I. Nature of language and the relationships between language, reality, cognition, and culture.

PHI 4300 AS-PHIL 3(3,0) Theories of Knowledge: PR: Philosophy major or C.I. Classical and contemporary theories of knowledge. A critical examination of various forms of, and reasons for, skepticism, criteria for truth and justification for belief.

PHI 4321 AS-PHIL 3(3,0) Philosophies of Embodiment: Mind/Body/Self: PR: Junior standing and either PHI 2010, PHI 2111, PHI 2108, or C.I. Different ways of understanding relations between mind, body, and nature. Self-knowledge as articulated by western and non-western philosophers from ancient to contemporary times.

PHI 4341 AS-PHIL 3(3,0) Ways of Knowing: PR: PHI 2010 or C.I. Philosophical study of approaches to knowledge, with emphasis on contributions of the knower to how things are known.

PHI 4400 AS-PHIL 3(3,0) Philosophy of Science: An examination of the conceptual foundations and methodology of modern science.

PHI 4420 AS-PHIL 3(3,0) Philosophy of Social Science: An examination of the objectives, methods and guiding norms of the social sciences and their role in the development of human knowledge.

PHI 4500 AS-PHIL 3(3,0) Metaphysics: PR: Philosophy major or C.I. Topics include appearance and reality, actions and events, necessity and possibility, identity, nature of persons, mind-body dualism, causality, and free will and determinism.

PHI 4633 AS-PHIL 3(3,0) Ethics and Biological Science: PR: Completion of the GEP. An application of contemporary thinking to ethical issues arising from the biological sciences, including human and animal experimentation, genetic engineering, biodiversity.

PHI 4633H AS-PHIL 3(3,0) Honors Ethics and Biological Science: PR: BSP 2010C, a course in Philosophy, and consent of Honors. Contemporary thinking on ethical issues arising from the biological sciences, including human and animal experiments, genetic engineering, and biodiversity.

PHI 4690 AS-PHIL 3(3,0) Ethics in Nanoscience and Nanotechnology: PR: Completion of GEP or Junior standing. Ethical implications of rapid developments in nanoscience and nanotechnology.

PHI 4804 AS-PHIL 3(3,0) Critical Theory: PR: C.I. Critical theory and cultural studies emphasizing current trends as they apply to arts in diverse media.

PHI 4931 AS-PHIL 3(3,0) Philosophy in the News: PR: PHI 2010. Changing course content. A specific topic being covered by the media will be selected for philosophical examination. Course is web enhanced.

PHI 4938 AS-PHIL 3(3,0) Senior Research Seminar: PR: Senior standing and Philosophy major. Capstone course on research, developing effective oral and written communication skills.

PHI 4951 AS-PHIL 1(1,0) Portfolio: PR: PHI 3083 and last semester as Philosophy major. Presentation of a representative sampling of student's best work, with appropriate revisions, including a cover narrative indicating development of philosophical knowledge and skills. Graded SU.

PHI 5627 AS-PHIL 3(3,0) Theoretical and Applied Ethics: PR: Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3638, or Graduate standing or C.I. A seminar in theoretical and applied ethics with emphasis on application in professional fields. Variable content.

PHI 5665 AS-PHIL 3(3,0) Knowledge, Responsibility, and Society: PR: Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3638, PHI 4300, PHI 4341, PHI 4400, PHI 4633, PHI 4931 or Graduate standing. A seminar exploring the relationship between ethics and epistemology with application to social concerns. Variable content.

PHI 5610 AS-PHIL 3(3,0) Freedom and Justice: Philosophical analyses and evaluation of selected issues arising from the interaction of the individual, society, and the state; includes topics such as freedom, equality, and justice.

PHI 5923 AS-PHIL 3(3,0) Feminist Theories: PR: ENC 1102. Contemporary issues and perspectives in feminist theory and their relation to divergent feminist practices.

PHI 5941 AS-PHIL 3(3,0) Philosophy of Law: PR: PHI 2010, PHI 2630, PHI 3670, or POS 2041. Study of the nature of, and justifications for, law and punishment. Examination of the concepts of legal personhood, rights and responsibilities.

PHI 5941L AS-PHIL 3(3,0) Environmental Philosophy: PR: PHI 3640, PHI 2630, or C.I. Major contemporary positions in environmental philosophy, including deep ecology, ecofeminism, and social ecology.

PHI 5935 AS-PHIL 3(3,0) Environmental Philosophy: PR: PHI 3640, PHI 2630, graduate status or senior standing, or C.I. This course will provide an in-depth examination of the major contemporary positions in environmental philosophy, including deep ecology, ecofeminism, and social ecology.

PHI 5935L AS-PHIL 3(3,0) Philosophy of Science: PR: PHI 2010 or PHI 3640 or C.I. Modernity in the philosophies of Kant, Hegel, Nietzsche, Heidegger, Derrida, Rorty, and others.

PHI 5941L AS-PHIL 3(3,0) Contemporary Aesthetics: PR: PHI 3640, PHI 2630, or C.I. Modernity in the philosophies of Kant, Hegel, Nietzsche, Heidegger, Derrida, Rorty, and others.

PHI 5941L AS-PHIL 3(3,0) Existentialism: Study of existentialist analysis and criticism of the human situation as found in the writings of such philosophers as Kierkegaard, Nietzsche, Heidegger, Sartre, and Camus.

PHI 5941L AS-PHIL 3(3,0) Phenomenology: PR: Junior standing and three Philosophy courses. The philosophy developed in the 20th century in the writings of Husserl, Heidegger, Sartre, Merleau-Ponty, De Beauvoir and Derrida.

PHI 5941L AS-PHIL 1(1,0) Physical Assessment Lab: PR: PHI 3069. Lab course emphasizing the examinations required to perform an evaluation of a physical therapy patient.


PHI 5941L AS-PHIL 2(2,0) Gross Anatomy/Neuroscience II: PR: PHI 3112, PHI 3112L. In-depth study of human morphology emphasizing the brain, spinal cord, cranial nerves, and upper lower extremities.

PHI 5941L AS-PHIL 2(2,0) Gross Anatomy/Neuroscience III: PR: PHI 3112, PHI 3112L. CR: PHI 3113L. In-depth study of human morphology emphasizing the brain, the cervical spine, pelvis, and the internal organs.

PHI 5941L AS-PHIL 3(0,6) Clinical Kinesiology: CR: PHI 3120L. 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.

PHI 5941L AS-PHIL 3(0,6) Clinical Kinesiology Lab: CR: PHI 3122. Lab course investigating the mechanical aspects of human movement.

PHI 5941L AS-PHIL 2(2,0) Physiology of Therapeutic Exercise: CR: PHI 3259, CR: PHI 3155L. Exercise physiology investigating the physiological responses and adaptations to human movement including cardiovascular and pulmonary systems.

PHI 5941L AS-PHIL 2(0,4) Physiology of Therapeutic Exercise Lab: CR: PHI 3155. Lab course exploring the clinical application of exercise physiology.

PHI 5941L AS-PHIL 2(2,0) Patient Care Skills: CR: PHI 3259. Affective, cognitive, and psychomotor skills applied to patient care. Diversity issues discussed. Basic skills of patient care; transfers, mobility skills, draping, gait training.
and different styles of learning and teaching. Patients with musculoskeletal dysfunction.

Therapeutic exercises emphasizing therapy. Therapeutic exercises for the treatment of musculoskeletal dysfunction.

Therapeutic Exercise I: PR: PHT 3155; PHT 3155L. CR: PHT 4222L. Therapy of developing, implementing, and evaluating a therapeutic exercise program for patients with musculoskeletal dysfunction.

Therapeutic Exercise I Lab: CR: PHT 4222. Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction.

Therapeutic Exercise II: PR: PHT 4222; PHT 4222L. CR: PHT 4230L. Exploration of the various therapeutic exercise modalities, and their application to the rehabilitation course treatment.

Therapeutic Exercise II Lab: CR: PHT 4230. Lab course emphasizing use of various therapeutic exercise modalities.

Pathology/Pharmacology: PR: PHT 3113. Organized seminars on the pathophysiology and clinical manifestations of various medical conditions as they relate to medical management in physical therapy practice.


Foundations of Physical Therapy I: PR: Admission to the PT program. Introduction to the profession of physical therapy.


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. Materials & Supply fee: $45.00.

Gross Anatomy/Neuroscience II: PR: PHT 4119C. CR: Gross Anatomy Neuroscience I and Lab. In-depth study of human morphology emphasizing the brain, the cervical spine, pelvis, and the internal organs.

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.

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.


Neurological 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. Materials & Supply fee: $15.00.

Physics for Teachers I: CR: C.I. "Hands-on” lecture-laboratory course. Statics, simple machines, density, solar energy, heat, weather, waves, optical reflections, naked eye astronomy.

Physics for Engineers & Scientists I: CR: MAC 2311 or equivalent. Mechanics, Thermodynamics, Fluids

Honors Physics for Engineers and Scientists I: PR: Permission of Honors and MAC 2311 or equivalent. Same as PHY 2048 with honors-level content.

Physics Laboratory for Engineers and Scientists I: CR: PHY 2048. Laboratory experiments covering selected topics in physics related to PHY 2048. Materials & Supply fee: $15.00.

Honors Physics Laboratory for Engineers and Scientists I: PR: Permission of Honors and MAC 2311 or equivalent. Same as PHY 2048 with honors-level content.
PHY 2049 AS-PHYS 3(3,0) Physics for Engineers and Scientists II: PR: MAC 2312 and PHY 2048 or PHY 2048H. Electricity, magnetism, optics.

PHY 2049H AS-PHYS 3(3,0) Honors Physics for Engineers and Scientists II: PR: Permission of Honors and PHY 2048H, MAC 2312. Same as PHY 2049 with honors-level content.

PHY 2049L AS-PHYS 1(0,3) Physics Laboratory for Engineers and Scientists II: CR: PHY 2049. Laboratory experiments covering selected topics in physics related to PHY 2049. Materials & Supply fee: $15.00.

PHY 2053C AS-PHYS 4(3,3) College Physics I: PR: MAC 1105 and MAC 1114 or equivalent, or C.I. Mechanics, waves, thermodynamics. Materials & Supply fee: $15.00.


PHY 2090 AS-PHYS 0(0,1.5) Physics Today: CR: PHY 2048 or PHY 2049. Fundamental physics principles behind recent developments in physics research will be presented in a seminar format. May be repeated for credit.

PHY 3101 AS-PHYS 3(3,0) Physics for Engineers and Scientists III: PR: MAC 2313 and PHY 2049 or PHY 2049H. Thermodynamics, oscillations, modern physics.

PHY 3110H AS-PHYS 3(3,0) Honors Physics for Engineers and Scientists III: PR: Permission of Honors and PHY 2049 or PHY 2049H. Same as PHY 3101 with honors-level content.

PHY 3220 AS-PHYS 3(3,0) Mechanics I: PR: PHY 2048 or PHY 2048H, MAP 2302. Particle dynamics, rigid bodies, Lagrangian formulation of mechanics, Hamilton's equations.


PHY 3513 AS-PHYS 3(3,0) Thermal and Statistical Physics: PR: PHY 3101 or PHY 3110H or C.I. Thermodynamics, kinetic theory, elements of statistical mechanics.


PHY 3802L AS-PHYS 3(1,5) Intermediate Physics Laboratory: PR: PHY 3101 or C.I. Laboratory work in basic measurements of physical constants; experiments in electronics, modern physics, nuclear physics, optics, and solid state physics. May be repeated for credit.

PHY 4324 AS-PHYS 3(3,0) Electricity and Magnetism II: PR: PHY 3323. Dielectrics, magnetic materials, electromagnetic waves, reflection, complex impedance, static solutions to Laplace's Equation, radiation from an accelerated charge and antenna, special relativity.

PHY 4424 AS-PHYS 3(3,0) Optics: PR: PHY 3101 and PHY 3232. Wave optics, absorption, stimulated emission, lasers, transforms, coherence, holography.

PHY 4424L AS-PHYS 3(0,3) Optical Physics Laboratory: A laboratory course on geometric optics, interference, diffraction, materials and modern optics.

PHY 4445 AS-PHYS 3(3,0) Lasers: PR: PHY 3101, MAP 2302, PHY 4424, or C.I. Principles of laser gain media, properties of resonators and modes, and description of specific laser systems.


PHY 5492C AS-PHYS 3(2,3) Practical in Physics: PR: C.I. Physics laboratories and demonstrations, and the study of recent research on the learning of physics.

PHY 5100 AS-PHYS 1(1,0) Topics in Contemporary Physics for Teachers: PR: Graduate status or senior standing or C.I. "Hands-on" lecture-laboratory course. Dynamics, electricity, magnetism, optics, nuclear radiation.

PHY 5140C AS-PHYS 3(3,2) Ion-Solid Interactions: PR: PHY 4504 or PHY 4324, graduate status or senior standing, or C.I. Physical principles and related scientific and technological applications of ion-solid interactions.

PHY 5200C AS-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.

PHY 5300C AS-PHYS 1(0,5,1.5) Electricity for Teachers: PR: Graduate status or senior standing or C.I. Circuits, multimeters, oscilloscopes, circuit elements.

PHY 5302C AS-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.

PHY 5346 AS-PHYS 3(3,0) Electrodynamic 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.

PHY 5401C AS-PHYS 1(0,5,1.5) Optics for Teachers: PR: Graduate status or senior or C.I. Geometrical and physical optics, spectrometers and lasers.

PHY 5455 AS-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.

PHY 5465C AS-PHYS 1(0,5,1.5) Wave Motion for Teachers: PR: Graduate status or senior or C.I. Water waves, waves on strings, sound and vibrations.

PHY 5500C AS-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.

PHY 5524 AS-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.

PHY 5565 AS-PHYS 3(3,0) Introduction to Quantum Computation: PR: C.I. Theoretical fundamentals and physical implementation of quantum computation for science and engineering students.

PHY 5846C AS-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.

PHY 5933 AS-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.

PHZ 5933 AS-PHYS 3(3,0) Introduction to Theoretical Methods of Physics: PR: PHY 3101. Analytical techniques to solve problems of physics.


PHY 3842 AS-PHYS 3(3,0) Nanophysics: PR: PHY 2049 or C.I. Physical phenomena occurring in nanometer-length scale, including nano colloids, and nano transport.

PHY 5156 AS-PHYS 3(3,0) Computational Physics: PR: PHY 3151 or C.I. Computational methods applied to the solution of prob-
### UCF Courses and Descriptions

**PHZ 5304** AS-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.

**PHZ 5405** AS-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.

**PHZ 5425C** AS-PHYS 3(3,3)
**Electron Solid Interactions:** PR: Undergraduate senior or graduate status or C.I. The physics and applications of electron interactions with solids. Classroom and hands-on laboratory content.

**PHZ 5432** AS-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.

**PHZ 5505** AS-PHYS 3(3,0)
**Plasma Physics:** PR: PHY 4324, and graduate status or senior standing or C.I. Introduction to plasma physics, instabilities, plasma waves, nonlinear effects, controlled thermonuclear fusion.

**PHZ 5600** AS-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.

**PLA 3013** HPA-CJ/LS 3(3,0)
**Law and the Legal System:** A survey course designed to familiarize the student with the American legal system, ethical considerations, terminology, legal reasoning, and the role of the legal assistant.

**PLA 3014** HPA-CJ/LS 3(3,0)
**Legal Research:** PR: PLA 3013 or C.I. A study of the various research tools used in legal investigation and the methods used to conduct legal research.

**PLA 3155** HPA-CJ/LS 3(3,0)
**Legal Writing:** PR: PLA 3104. A study of legal writing format and technique and the preparation of memoranda and other legal documents, using research skills learned in PLA 3104.

**PLA 3201** HPA-CJ/LS 3(3,0)
**Civil Practice and Procedure:** PR: PLA 3013 or C.I. The student becomes familiar with the Florida civil procedure before trial and acquires the ability to prepare basic pleadings.

**PLA 3201H** HPA-CJ/LS 3(3,0)
**Civil practice and Procedure - Honors:** PR: Permission of Honors and PLA 3013 or C.I. Same as PLA 3201 with honors level content.

**PLA 3273** HPA-CJ/LS 3(3,0)
**The Law of Torts:** PR: PLA 3013 or C.I. Theories governing liability for civil injuries not arising from contractual obligations; systems and procedures used in preparation, trial and appeal of Torts cases.

**PLA 3304** HPA-CJ/LS 3(3,0)
**Criminal Law:** Basic concepts of substantive criminal law. The course includes examination of elements of major crimes, criminal responsibility, legal defenses, and parties to crime.

**PLA 3308** HPA-CJ/LS 3(3,0)
**Criminal Procedure:** PR: PLA 3013 or CCJ 3024 or C.I. Rules of criminal procedure, with emphasis on Florida rules, including right to counsel, bail, search and seizure, arrest, identification, trial, and post-trial proceedings.

**PLA 3610** HPA-CJ/LS 3(3,0)
**Property and Real Estate Law:** PR: PLA 3013. Study of the law of real and personal property; real estate transactions and conveyances; closing procedures and title problems.

**PLA 4020** HPA-CJ/LS 3(3,0)
**Law and Society:** Examination of the relationship between law and American society including the impact on the legal system and legal profession of major social movements.

**PLA 4223** HPA-CJ/LS 3(3,0)
**Advanced Trial Advocacy:** PR: PLA 4910 or C.I. Litigation and trials at an advanced level; students must handle trial from beginning to end. May be repeated for credit.

**PLA 4240** HPA-CJ/LS 3(3,0)
**Negotiation Alternatives in Law:** PR: PLA 3013. Negotiation and mediation and other dispute resolution processes.

**PLA 4263** HPA-CJ/LS 3(3,0)
**Evidence:** PR: PLA 3013 and 3201 or C.I. An examination of statutes and cases that define rules of evidence for trial courts. Primary emphasis is on the Florida Evidence Code.

**PLA 4423** HPA-CJ/LS 3(3,0)
**The Law of Contracts:** Study of the basic law of contracts as developed in Anglo-American law and as changed by modern statutes, including the Uniform Commercial Code. Florida contract law will be emphasized.

**PLA 4443** HPA-CJ/LS 3(3,0)
**Florida Partnerships and Corporations:** Statutory requirements of Florida partnerships and corporations; creation and dissolution of business organizations, responsibilities of officers and basic rights of stockholders.

**PLA 4460** HPA-CJ/LS 3(3,0)
**Bankruptcy Law:** PR: C.I. This course will acquaint the student with the substantive law and procedures associated with the rights and obligations of debtors and creditors.

**PLA 4472** HPA-PUB 3(3,0)
**Employment Discrimination Law:** PR: C.I. Course will address employment discrimination based on race, gender, religion, national origin, age, disability and sexual orientation, issues such as workplace harassment will be analyzed.

**PLA 4483** HPA-CJ/LS 3(3,0)
**Administrative Law:** PR: PLA 3013 or PAD 3003. The law regarding governmental agencies with emphasis on the administrative process, Administrative Procedures Acts and special problems of state administrative law.

**PLA 4530** HPA-CJ/LS 3(3,0)
**Legal Issues of the Elderly:** PR: PLA 3013. Legal concerns faced by older Americans as they plan their later life and seek to maximize their personal autonomy.

**PLA 4583** HPA-CJ/LS 3(3,0)
**Cyber Law:** PR: PLA 3013. Analysis of copyright, trademark, and patent issues in cyberspace; online dispute resolution, privacy, and free speech topics. With Honors Content.

**PLA 4601** HPA-CJ/LS 3(3,0)
**Estate 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.

**PLA 4602** HPA-CJ/LS 3(3,0)
**Estate Administration:** PR: PLA 4601. Study of the laws and procedures applicable to administration of estates.

**PLA 4631** HPA-CJ/LS 3(3,0)
**Land Use and Environmental Law:** PR: PLA 3013, PLA 3610. Study of the law relating to private and public restraints on land use, including planning, zoning, subdivision and building regulations, with emphasis on recent interpretations by judiciary for environmental protection.

**PLA 4700** HPA-CJ/LS 3(3,0)
**Professional Ethics and Liability:** PR: PLA 3013. Ethical responsibilities of professionals. Canons of legal ethics, liability for professional malpractice.

**PLA 4710** HPA-CJ/LS 1(1,0)
**CAREERS IN LEGAL STUDIES:** PR: Major in Legal Studies or C.I. Applications of Legal Studies. Students will explore options in legal studies, professional development, and ethics. Graded S/U.

**PLA 4732** HPA-CJ/LS 3(3,0)
**Advanced Legal Applications of 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.

**PLA 4763** HPA-CJ/LS 3(3,0)
**Law Office Practices:** PR: PLA 3013. Organization, operation and management of law office. Interviewing techniques and practical application of work that is done in a law office.

**PLA 4800** HPA-CJ/LS 3(3,0)
**Domestic Relations Law:** PR: PLA 3013, PLA 3610. Role of the legal assistant in all phases of family and juvenile law. Fundamental procedures and principles applied by the courts to family problems.

**PLA 4813** HPA-CJ/LS 3(3,0)
**Juvenile Law and Procedure:** PR: PLA 3013 or C.I. Examines both the substantive and procedural law for juvenile delinquency and dependency. Emphasis on Florida law and comparison with other jurisdictions.

**PLA 4823** HPA-CJ/LS 3(3,0)
**Sports Law:** PR: PLA 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.

**PLA 4824** HPA-CJ/LS 3(3,0)
**Legal Issues for Athletic Trainers:** PR: C.I. Analysis of the legal issues affecting athletic trainers.

**PLA 4825** HPA-CJ/LS 3(3,0)
**Entertainment Law:** PR: PLA 3013 or C.I. Introduction to the control and regulation of the entertainment industry and the associated legal issues.

**PLA 4826** HPA-CJ/LS 3(3,0)
**Advanced Entertainment Law:** PR: PLA 4825. Legal complexities and regulations pertaining to the Entertainment Industry at an advanced level.

**PLA 4830** HPA-CJ/LS 3(3,0)
**World Legal Systems:** PR: PLA 3013 or equivalent. An examination of various legal traditions and systems of the World. Substantive and procedural laws will be examined.
PLA 4910 HPA-CJ/LS 3(4,0) Trial Advocacy: PR: PLA 3013 or C.I. Analysis of the entire litigation process from the initial client interview through the appellate stage, and development of oral advocacy skills.

PLA 4935 HPA-CJ/LS 3(3,0) Capstone: Legal Issues: PR: senior status, Leagal Studies major. The legal and socio-legal analysis of selected issues that require students to synthesize their legal studies education.

PLA 5937 HPA-CJ/LS 3(1,2) Seminar in Contemporary Legal Problems: PR: C.I. Analysis of current trends in legislation and court decisions and their significance to American society.

POR 1120 AS-LANG 4(4,1) Elementary Portuguese Language and Civilization I: Introduces the student to Portuguese culture through the major language skills: listening, speaking, reading, and writing. Open only to students with no experience in this language.

POR 1121 AS-LANG 4(4,1) Elementary Portuguese Language and Civilization II: PR: POR 1120 or C.I. Continuation of POR 1120. The course emphasizes the four major language skills: reading, writing, listening, and speaking.

POR 3140 AS-LANG 3(3,0) Accelerated Portuguese for Speakers of Romance Languages: PR: PRE 2201, or ITA 2201, or SPN 2231, or course equivalent. Accelerated Portuguese for proficient speakers of Romance Languages. It is expected that students have no prior knowledge of Portuguese.

POS 2041 AS-POLS 3(3,0) American National Government: A study of the dynamics of American national government, including its structure, organization, powers, and procedures.

POS 2041H AS-POLS 3(3,0) Honors American National Government: PR: Permission of Honors. Same as POS 2041 with honors-level content.

POS 3122 AS-POLS 3(3,0) State Government and Public Policy: PR: POS 2041 or C.I. A comparative study of American state governments, political processes, and public policies, with emphasis on Florida.

POS 3122H AS-POLS 3(3,0) Honors State Government and Public Policy: PR: POS 2041 or C.I. A comparative study of American state governments, political processes, and public policies, with emphasis on Florida. With Honors content.

POS 3173 AS-POLS 3(3,0) Southern Politics: PR: POS 2041 or C.I. Study of southern politics past and present. Emphasis on factors effecting changes in the region and the states. Southern and national relationship examined.

POS 3182 AS-POLS 3(3,0) Florida Politics: PR: POS 2041 or C.I. Examines the foundations of Florida government and political behavior, political institutions, and public policy.

POS 3233 AS-POLS 3(3,0) Public Opinion: PR: Junior standing or C.I. Nature, impact and development of public opinion, emphasizing the influence of race, gender, age, and class on opinions, voting, and political behavior.

POS 3235 AS-POLS 3(3,0) Mass Media and Politics: PR: POS 2041 or C.I. Influence of media on campaigns, public officials, public opinion, the definition of political news, and selected public policies.

POS 3235H AS-POLS 3(3,0) Honors Mass Media and Politics: PR: POS 2041 or C.I., consent of Honors. Influence of media on campaigns, public officials, public opinion, the definition of political news, and selected public policies. With Honors content.

POS 3253 AS-POLS 3(3,0) Contemporary Revolution and Political Violence: Theories and cases of revolutionary change and political violence in the contemporary world.

POS 3258 AS-POLS 3(3,0) Politics in Film: PR: POS 2041 or C.I. The influence of motion pictures on popular understanding of American and international politics.

POS 3273 AS-POLS 3(3,0) Voting and Elections: Theoretical and substantive inquiry into U.S. electoral systems: includes focus on voter behavior as well as national and state electoral systems.

POS 3413 AS-POLS 3(3,0) The American Presidency: PR: POS 2041 or C.I. Examination of historical and contemporary role of the presidency, including the presidential selection process and the office's evolution in status, powers, administrative responsibilities, leadership, and decision-making.

POS 3424 AS-POLS 3(3,0) Congress and the Legislative Process: PR: POS 2041 or C.I. Examination of the Congress as an institution undergoing dynamic change; emphasis upon recruitment of legislators, institutional and informal rules, the committee system, legislative procedures.

POS 3443 AS-POLS 3(3,0) Political Parties and Processes: PR: POS 2041 or C.I. In-depth study of the American political party system in the context of changing American politics; topics include development, organization, reforms, legislative and executive roles.

POS 3463 AS-POLS 3(3,0) Interest Groups: PR: POS 2041 or C.I. Analyzes the non-electoral behavior of economic, ideological, and citizen groups; political action committees; and the proliferation of interest organizations over the past quarter century.

POS 3627 AS-POLS 3(3,0) Cultural Pluralism and Law: PR: POS 2041. A case law approach to the legal and constitutional aspects of historical and current issues facing minorities in the U.S.

POS 3703 AS-POLS 3(3,0) Scope and Methods of Political Science: PR: Junior standing or C.I. The scope and methodology of political analysis. Extensive examination of the discipline, research design and methodology.

POS 3949 AS-POLS 0(0,8) Cooperative Education in Political Science: PR: Departmental permission required before registering. Cooperative education experience in political science. May be repeated. Graded S/U.

POS 4074 AS-POLS 3(3,0) Latino Politics: PR: POS 2041 or C.I. Political characteristics of the Latino community in the United States and its impact on U.S. national and international politics and policies.

POS 4142 AS-POLS 3(3,0) Metropolitan Politics: Analysis of political patterns, processes, and issues in American communities. Intergovernmental relations and structural and political arrangements in the existing and emerging metropolitan areas.

POS 4204 AS-POLS 3(3,0) Political Behavior: PR: POS 2041 or C.I. Mass political behavior, concentrating on voting and participation, primarily in the United States.

POS 4206 AS-POLS 3(3,0) Political Psychology: The psychological analysis of political behavior, with emphasis on the individual rather than the political system; includes political attitudes and communication, leadership, and personality influences on politics.

POS 4246 AS-POLS 3(3,0) Political Socialization: PR: POS 2041 or C.I. Analysis of recruitment and socialization processes. Identification of the agents and processes of political socialization in national and cross-cultural contexts.

POS 4284 AS-POLS 3(3,0) Judicial Process and Politics: Study of the formal and informal judicial process. Legal culture, bureaucratic model, judicial recruitment and outputs, comparative judicial behavior.

POS 4412 AS-POLS 3(3,0) Presidential Campaigning: PR: C.I. Introduces the process of candidate selection, convention behavior, actual campaign process and the transition of power.

POS 4603 AS-POLS 3(3,0) American Constitutional Law: PR: POS 2041 or C.I. Development of American federalism and national power, commerce clause, and nationalization of the economy.

POS 4604 AS-POLS 3(3,0) American Constitutional Law II: PR: POS 2041 or C.I. Development of civil liberties and civil rights in the American federal system.

POS 4622 AS-POLS 3(3,0) Politics and Civil Rights: PR: Junior standing or C.I. Examination of civil rights issues in the context of political behavior, political institutions and public policy since 1865.

POS 4742 AS-POLS 3(3,0) Geographic Information Systems for the Political Scientist: PR: POS 2041. Theoretical assumptions, analytical possibilities, and application of Geographic Information Systems (GIS) for political science research.

POS 4941L AS-POLS 3(9,3-9) Political Science Internship: PR: C.I. Internship working with the national, state, county or municipal government. Assignments with selected civic organizations, elected or appointed officials. May be repeated for credit.

POT 3204 AS-POLS 3(3,0) American Political Thought: From its sources to the 20th century, including liberalism, puritanism, the Federalist, the rise of industrialism, resulting social movements, modern variations.

POT 3302 AS-POLS 3(3,0) Modern Political Ideologies: A study of modern ideologies since the French Revolution including liberalism, conservatism, capitalism, nationalism, fascism and anarchism.

POT 4003 AS-POLS 3(3,0) Political Theory: PR: POS 2041 or C.I. Examination of various normative approaches to the study of political science, stressing contemporary developments in the field.

POT 4025 AS-POLS 3(3,0) Ancient, Medieval and Early Modern Political Philosophy: Study of the development of political and
social ideas in western thought from early Greece through the 17th century.

POT 4054 AS-POLS 3(3,0)
Modern Political Philosophy: Study of the development of political and social ideas from the 18th century to the present. May be taken independently of POT 4045 (Ancient, Medieval and Early Modern Political Philosophy).

POT 4066 AS-POLS 3(3,0)
Contemporary Political Theory: PR: Junior standing or C.I. Study of the contemporary debate about the status of rights, utilitarianism, and liberalism, and communitarian Marxism, libertarian, and feminist critiques of liberalism.

POT 4109 AS-POLS 3(3,0)
Politics and Literature: PR: Junior standing. Examination of politics and the political process through the medium of literature.

POT 4305 AS-POLS 3(3,0)
The State, Society, and the Individual: PR: Junior standing or C.I. The relationship between the state, society, and the individual by discussing the works of major authors from Adam Smith to Robert Axelrod.

POT 4314 AS-POLS 3(3,0)
Contemporary Democratic Theory: PR: POS 2041 or C.I. Study of democratic theories, emphasizing liberal democracy and its critics, elitist theories, participatory democracy, citizen participation, and relevance of empirical research to democratic theory.

POT 4331 AS-POLS 3(3,0)
Utopia/Disutopia: PR: Junior standing or C.I. Examines political issues, such as justice, economic distribution and social organization by exploring both classic and contemporary utopias and dystopias.

POT 4414 AS-POLS 3(3,0)
Marxist Political Theory: Survey of Marx & Engels and other thinkers, exposing the theoretical underpinnings of nations and groups who have adopted marxist principles for governance.

POT 4632 AS-POLS 3(3,0)
Religion and Politics: PR: Junior standing. Institutional and individual relationship of religion and politics including globalization, fundamentalism, secularization, American exceptionalism, political behavior, and the religious origins of current secular concepts.

PPE 3003 AS-PSYCH 3(3,0)
Personality Theory: PR: PSY 2012. A survey of theories and research on the development of personality characteristics.

PPE 3003H AS-PSYCH 3(3,0)
Honors Personality Theory: PR: PSY 2012 and Consent of Burnett Honors College. Theory and research on the development of personality characteristics. With Honors content.

PPE 5055 AS-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.

PSB 3002 AS-PSYCH 3(3,0)
Physiological Psychology: PR: PSY 2012. The physiological basis of behavior, emphasizing the relationship between the nervous system and behavior.

PSB 3441 AS-PSYCH 3(3,0)
Psychobiological Aspects of Drugs: PR: PSY 2012. An advanced course designed for web instruction. Focuses on pharmacology, neurophysiology and neuroanatomy as the foundation of understanding behavior and social consequences of drug use.

PSB 3842 AS-PSYCH 3(3,0)

PSB 4103C AS-PSYCH 3(2,2)

PSB 4204C AS-PSYCH 3(3,0)

PSB 4422 AS-PSYCH 3(2,2)

PSB 5005 AS-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.

PSC 1121 AS-PHYS 3(3,0)
Physical Science: PR: MAC 1105 or MGF 1106. MAC 1105 or MGF 1106. Fundamentals of mechanics, heat, waves, electricity, magnetism; chemical processes and equations, properties of gases, liquids, solids, solutions. Materials & Supply fee: $2.20

PSC 1121H AS-PHYS 3(3,0)
Honors Physical Science: PR: Permission of Honors and MAC 1105 or MGF 1106. PSC 1121 with Honors-level content.

PSC 1121L AS-PHYS 1(0,2)
Physical Science Lab: CR: PSC 1121. Experiments to apply the scientific method to observation and analysis in mechanics, heat, light, electricity and magnetism, chemical and physical transformations. Materials & Supply fee: $10.00

PSY 2012 AS-PSYCH 3(3,0)
General Psychology: A survey of the basic principles, theories, and methods of contemporary psychology, including the study of human diversity.

PSY 2012H AS-PSYCH 3(3,0)
Honors General Psychology: 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.

PSY 2023 AS-PSYCH 1(1,0)
Careers in Psychology: PR: PSY 2012. An examination of various career opportunities in Psychology, including educational entrance requirements, and related professional issues. Graded S/U.

PSY 3022C AS-PSYCH 3(1,8)

PSY 3028 AS-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 entrance requirements and related issues.

PSY 3204 AS-PSYCH 4(3,2)
Statistical Methods in Psychology: PR: STA 2014C or STA 2023. Standard scores, confidence intervals, sampling distributions, hypothesis testing, correlation and regression as applied to research in psychology.

PSY 3213C AS-PSYCH 4(3,2)
Research Methods in Psychology: PR: PSY 2012 and STA 2014C or STA 2023. Investigation of experimental designs and research methods utilized in psychology. Laboratory outcomes will be statistically analyzed and reported in APA format. Materials & Supply fee: $20.00

PSY 3213H AS-PSYCH 4(3,2)
Honors Research Methods in Psychology: PR: Permission of Honors and PSY 2012 and STA 2014C or STA 2023. Investigation of experimental designs and research methods utilized in psychology. Laboratory outcomes will be statistically analyzed and reported in APA format. Honors content.

PSY 3302 AS-PSYCH 3(3,0)

PSY 3320C AS-PSYCH 3(2,2)

PSY 3624 AS-PSYCH 3(3,0)
Parapsychology: PR: PSY 2012. An examination of the history and development of research on paranormal phenomena, with special emphasis on recent developments in extrasensory perception and psychokinesis.

PSY 3630 AS-PSYCH 3(3,0)

PSY 3951 AS-PSYCH 1-3(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.

PSY 4025 AS-PSYCH 3(3,0)
The Psychology of Art: PR: PSY 2012, and ARH 2050 or ARH 2561. Discussion of the psychological perspectives on art to gain a greater understanding and enhanced appreciation for the process and products of creativity.

PSY 4213L AS-PSYCH 3(0,3)
Advanced Research Methods Statistical Lab: PR: PSY 3213C and PSY 4215C. Data analysis and research reporting procedures. Experience in analyzing and explaining the methods and results used in research reports. Materials & Supply fee: $15.00

PSY 4215C AS-PSYCH 4(3,2)

PSY 4305C AS-PSYCH 3(1,4)
Advanced Psychological Measurement: PR: or CR: PSY 3302. Application of the theory underlying psychological test and measurement procedures, including reliability,
validity, and item analysis.

PSY 4604 AS-PSYCH 3(3,0)  
History and Systems of Psychology: PR: EXP 3404 and PPE 3003. Historical development of psychology, with emphasis on classical theoretical positions.

PSY 5605 AS-PSYCH 3(3,0)  
History and Systems of Psychology: PR: Acceptance to Clinical Psychology Ph.D. program or C.I. An examination of modern American psychology from its origins in the late 19th century to the present time. This course is intended for the Ph.D. in Clinical Psychology; in certain instances graduate students in other programs may enroll.

PUP 3203 AS-POLS 3(3,0)  
Environmental Politics: PR: POS 2041 or C.I. An examination of politics and policy-making concerning issues of conservation, pollution and development of land, air, and water resources.

PUP 3314 AS-POLS 3(3,0)  
Minorities in American Politics: Historical and contemporary role of minority groups in the American political process, including an examination of their electoral significance and relevant legislative, executive, and judicial policies.

PUP 3325 AS-POLS 3(3,0)  
Women and Political Behavior: PR: POS 2041 or C.I. Women's role in the political process, emphasizing women in the governmental and policy process.

PUP 3508 AS-POLS 3(3,0)  
Space Studies: PR: Junior standing or C.I. Multidisciplinary overview of space studies, providing familiarity with some technical aspects as well as the relationships between technical and public policy considerations.

PUP 4003 AS-POLS 3(3,0)  
American Public Policy: PR: POS 2041 or C.I. Policy formation, implementation and evaluation, with a focus upon contemporary American problems, including the malapportionment of societal power and social conflict.

PUP 4204 AS-POLS 3(3,0)  
Sustainability: PR: POS 2041 or C.I. Environmental politics through the lens of "sustainability." Attention devoted to the relationships of culture, economics, and ecology.

PUP 4209 AS-POLS 3(3,0)  
Urban Environmental Policy: PR: POS 2041. Public policy, ecology, and the urban political landscape explored by tracing their development and prospects for sustainable cities.

PUP 4323 AS-POLS 3(3,0)  
Women and Public Policy: PR: POS 2041 or C.I. Public policies and processes that achieve a disparate impact on women and women's lives in the United States.

PUP 4404 AS-POLS 3(3,0)  
Education and Politics: PR: Junior standing or C.I. Western education and the connection between citizenship and education, education funding, and the politics of education reform.

PUP 4503 AS-POLS 3(3,0)  
Government and Science: PR: C.I. Examination of interface between science and government. Focus is upon governmental support for science, social accountability, and the role of the scientist-policy maker in comparative context.

PUP 4510 AS-POLS 3(3,0)  
Space Policy: An examination of the politics and policy-making involved with the US space program in the context of domestic demands and other international space programs.
REL 4901 AS-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.

REL 4910 AS-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.

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. Materials & Supply fee: $43.00.

RET 3174 HPA-HP 3(3,0)
Pediatric Respiratory Care: PR: RET 3026. The study of childhood respiratory diseases, congenital problems, infections, metabolic disorders, and AIDS.

RET 3264C HPA-HP 3(2,3)
Mechanical Ventilation: PR: RET 3262. Function and use of mechanical ventilators, patient evaluation methods. All forms of ventilatory support will be studied. Lecture and laboratory.

RET 3483C HPA-HP 3(2,1)
Respiratory Clinical Assessment: PR: RET 3026 or C.I. Demonstration of physical assessment techniques, critical thinking, chest radiology and other laboratory techniques, polysomnography and clinical documentation. Includes Internet work.

RET 3484C HPA-HP 4(3,3)

RET 3874 HPA-HP 5(1,16)

RET 3875 HPA-HP 8(1,24)
Clinical Practice II: PR: C.I. Patient care with advanced respiratory equipment. Tracheostomy care. Introduction to cardiopulmonary resuscitation. Introduction to critical care units. Advanced life support techniques and equipment.

RET 4034 HPA-HP 3(3,0)

RET 4244 HPA-HP 3(3,0)

RET 4284 HPA-HP 3(3,0)
Cardiopulmonary Diagnostics I: PR: RET 4244C. Non-invasive cardiac diagnostics, including echocardiography, nuclear cardiology, and stress testing.

RET 4285 HPA-HP 3(3,0)
Cardiopulmonary Diagnostics II: PR: RET 4244C and RET 4284C. Invasive cardiac diagnostic and therapeutic measures, including cardiac catheterization, PTCA, stent placement, and heart surgery.

RET 4414C HPA-HP 4(3,3)
Pulmonary Function Studies: PR: RET 3026C. Detailed procedures and tests to provide information for diagnosis of pulmonary disease. Lecture-laboratory.

RET 4441 HPA-HP 4(3,3)
Vascular Ultrasound: Study of application of ultrasound in the diagnosis of vascular diseases. Includes doppler and color flow doppler examination of arterial and venous systems.

RET 4443 HPA-HP 4(3,3)
Advanced Cardiac Ultrasound: PR: RET 4284 or C.I. Study of advanced applications of ultrasound in the diagnosis of cardiac abnormalities. Two-dimensional echo, conventional doppler, and color doppler covered.

RET 4503 HPA-HP 3(3,0)
Chest Medicine: PR: RET 3026. Disease states treated medically in conjunction with one or more modalities of respiratory therapy.

RET 4536 HPA-HP 3(3,0)
Cardiopulmonary Rehabilitation: PR: RET 3026C & RET 3484C or C.I. Principles underlying the development, implementation, and management of a comprehensive cardiopulmonary rehabilitation program.

RET 4715 HPA-HP 3(3,0)

RET 4876 HPA-HP 8(1,24)

RET 4934 HPA-HP 2(2,0)
Selected Topics in Respiratory Therapy: PR: C.I. Current topics of adult critical care, as they apply to the advanced study of respiratory therapy.

RET 5910 HPA-HP 3(3,0)
Research Methods in Cardiopulmonary Physiology: Introduction to methods used in scientific and medical research in cardiopulmonary physiology. Literature review, experimentation, and data analysis.

RMI 3011 BA-FIN 3(3,0)
Principles of Risk and Insurance: PR: FIN 3403. Emphasis is on insurance as a risk-handling device, with attention given to risk assumption, risk avoidance, and loss prevention.

RTE 3000 HPA-HP 3(3,0)

RTE 3111C HPA-HP 2(1,5,1.5)
Introduction to Patient Care: PR: Acceptance to the program. Provides the student with fundamentals of patient care methods related to radiography. Materials & Supply fee: $10.00.

RTE 3116 HPA-HP 3(3,0)
Advanced Patient Care: PR: RTE 3111C or C.I. Study of advanced patient care concepts and techniques associated with computed tomography, magnetic resonance imaging, mammography, pediatrics and interventional procedures.
RTE 3308 HPA-HP 3(3,0) Medical Physics: PR: RTE 3684C or C.I. Study of radiation, production, characteristics, detection and measurement, and protection, including barrier thickness calculation and shielding.

RTE 3418C HPA-HP 3(2.5,1.5) Principles of Radiographic Exposure I: An introduction to the technical variables influencing radiographic and fluoroscopic image quality, including equipment considerations, prime exposure factors, image receptors, and accessory exposure devices. Materials & Supply fee: $28.00

RTE 3457C HPA-HP 3(2.5,1.5) Principles of Radiographic Exposure II: PR: RTE 3418 or C.I. Study of technical and photographic processing variables influencing conventional, radiographic and digital image quality. Materials & Supply fee: $28.00

RTE 3503C HPA-HP 3(2,3) Radiographic Procedures I: PR: Admission to the program. Provides fundamental knowledge of radiographic positioning, equipment manipulation, and quality evaluation of radiographic studies of the chest, abdomen, routine contrast studies, and the upper extremity. Materials & Supply fee: $45.00

RTE 3513C HPA-HP 3(2,3) Radiographic Procedures II: PR: RTE 3503C or C.I. Continuation of radiographic positioning, equipment manipulation, and quality evaluation of radiographic studies of the shoulder, bony thorax, lower extremity, vertebral column, cranium, and facial bones. Materials & Supply fee: $45.00

RTE 3684C HPA-HP 2(2.0) Physics of Image Production: PR: College Physics II. Physics of diagnostic radiation, including radiation production, physical principles of generation operation, and characteristics of electromagnetic radiation.

RTE 3804 HPA-HP 4(0,16) Clinical Education I: PR: RTE 3111C or C.I. Supervised clinical practice in radiographic procedures, radiation protection, patient care, equipment.

RTE 4202 HPA-HP 3(3.0) Methods in Radiology Management: Concepts of radiology, department management, including principles, personnel management, evaluation and improvement techniques, budgeting, financial considerations and legal aspects, and JCAH quality assurance specifications.

RTE 4206 HPA-HP 3(3.0) Leadership in Radiological Sciences: PR: Senior level status in RS major or C.I. Study of the theories, principles and skills needed to function in a leadership position in Radiologic Sciences.

RTE 4209 HPA-HP 2(0.8) Radiological Administrative Practice: A directed practice in the management of a radiology department, with application of theory and methodology.

RTE 4395 HPA-HP 1(1.0) Radiobiology: PR: RTE 3306C. A study of the effects of ionizing radiation on biologic systems. The responses at the cellular and total organism level are investigated.

RTE 4473 HPA-HP 3(3.0) Quality Improvement: PR: Registered technologist or Senior standing. The study of quality improvement and quality control from the perspective of radiology services.

RTE 4563 HPA-HP 2(2.0) Special Radiographic Procedures: PR: RTE 3513C or C.I. Principles of nonvascular invasive procedures, including myelography, cholangiography, hysterosalpingography, and bronchography.

RTE 4573 HPA-HP 3(3.0) Advanced Imaging Modalities: PR: RTE 3563 or C.I. A study of the physical principles and applications of computed tomography, digital imaging, interventional radiography, mammography, ultrasound, magnetic resonance imaging, and nuclear medicine.

RTE 4762 HPA-HP 3(3.0) Anatomy for the Medical Imaging: A study of the normal anatomical structures and interrelationships of structures as demonstrated in a radiographic and cross-sectional imaging reference.

RTE 4782 HPA-HP 2(2.0) Pathophysiology: PR: C.I. The study of radiologic science in the diagnosis and treatment of disease.

RTE 4814L HPA-HP 5(0,20) Clinical Education I: PR: RTE 3804. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the chest, abdomen, extremities and shoulder girdle.

RTE 4824L HPA-HP 6(0,24) Clinical Education III: PR: RTE 4814L. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the pelvis, thoracic cavity, vertebral column and portable and surgical radiography.

RTE 4834 HPA-HP 4(0,16) Clinical Education IV: PR: RTE 4824L. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the cranial, facial bones, and special procedures.

RTE 4844 HPA-HP 4(0,16) Clinical Education V: PR: RTE 4834. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on surgical and special procedure examinations.

RTE 4854 HPA-HP 2(0,8) Advanced Clinical Practicum: PR: RTE 4824L. Supervised clinical experience and/or practice in computed tomography, interventional, vascular, and magnetic resonance imaging.

RTE 4903 HPA-HP 2(0.8) Directed Study in Radiologic Education: PR: EVT 3371 or EDG 4323 or C.I. Directed activity in classroom instruction in radiologic technology.

RTE 2102 AS-R/TV 3(3,0) Writing for the Electronic Media: PR: ENC 1102, RTV Major. Practical experience in writing for various electronic media including radio, television, corporate, and digital media. Scripting requirements, writing styles and creative applications.

RTE 3000 AS-R/TV 3(3,0) Production of Interactive Multimedia: PR: CGS 1060C or C.I. Principles of multimedia, including interactive media, gesture and sound. Materials & Supply fee: $30.00

RTE 3223C AS-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. Materials & Supply fee: $30.00


RTE 3231C AS-R/TV 4(1,3) Broadcast Announcing and Performance: PR: RTV Majors only, RTV 3210C or RTV 3260C or RTV 4270C or C.I. Communication problems on camera and microphone. Development of performance skills in announcing, interviewing, narrating, and reporting. Materials & Supply fee: $15.00

RTE 3260C AS-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). Materials & Supply fee: $30.00

RTE 3263C AS-R/TV 3(3,3) Advanced Video Post-Production: PR: RTV 3200 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. Materials & Supply fee: $15.00

RTE 3283C AS-R/TV 3(3,1) Production of Interactive Multimedia: PR: CGS 1060C or C.I. Communication problems on camera and microphone. Materials & Supply fee: $30.00


RTE 3304 AS-R/TV 3(3,0) Electronic Journalism II: PR: RTV 3301, RTV 3260C, and RTV Major - Broadcast Journalism Specialization. Newswriting and newswriting strategies learned in RTV 3301 are integrated into a newsgathering context for actual production of analog and digital radio and television news packages.

RTE 3501 AS-R/TV 3(1,2) Broadcast Copywriting: PR: RTV Majors only, Grammar Proficiency Examination and School Typing Exam. Preparation of written public service and commercial copy for radio and television.

RTE 3942L AS-R/TV 1-3(3,0-9) Production: 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.

RTE 4206C AS-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, with emphasis on dramatic value and composition. Materials & Supply fee: $30.00

RTE 4211C AS-R/TV 3(3,3)
UCF Courses and Descriptions

Audio Production II: PR: RTV 3210C and RTV Major. Creating the sound design and multiple track recording in the analog and digital domain. Materials & Supply fee: $15.00

RTV 4270C AS-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 formats, the integration of digital resources, and their effects on today's radio listener.

RTV 4280C Webcasting I: PR: RTV Major and PR or CR: RTV 3280C. Presentation of distribution to radio, television, and web content. Materials & Supply fee: $15.00

RTV 4281C 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. Materials & Supply fee: $15.00

RTV 4320C 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. Materials & Supply fee: $15.00

RTV 4322C Advanced TV News: PR: RTV 4320C, RTV Majors only and C.I. Supervised broadcast news experience and practice in the weekly UCF news program.

RTV 4403 Electronic Media, Technology, and Society: PR: or CR: RTV 3000. Theories of mass communication, mass communication effects, and emerging communication technologies, including digital media.

RTV 4503 Sports Programming on Broadcast and Cable: PR: RTV 3000 or C.I. An examination of the factors that determine how sporting events are conducted for programming on broadcast stations and cable systems.

RTV 4505 Program Issues for TV & Motion Pictures: PR: RTV 3000 or Fil 2400. An examination of program development theories, strategies and issues in the television and motion picture industries.

RTV 4700 Regulation of Broadcasting: PR: RTV Majors only, RTV 3000. Federal, state, local and self-regulatory agencies and practices which govern electronic media.

RTV 4800 Broadcast Management: PR: RTV Majors only, RTV 4700. Examination of broadcast management problems in station operations at local, regional, and national levels.

RUS 1120 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.

RUS 1121 Elementary Russian Language and Civilization II: PR: RUS 1120 or equivalent. Continuation of RUS 1120.

RUS 2210 Intensive Russian Conversation: PR: One year of Russian or equivalent. Practical use of the language, leading toward fluency and correctness in speaking.

RUS 2230 Intermediate Russian Language and Civilization I: PR: RUS 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level.

RUS 2231 Intermediate Russian Language and Civilization II: PR: RUS 2230 or equivalent. Continuation of RUS 2230, with emphasis on Russian civilization.

RUS 3240 Russian Conversation: PR: RUS 2231 or equivalent. Development of skills in conversation and comprehension throughout practice.

RUS 3760 Advanced Russian Oral Communication: PR: RUS 2231 or equivalent. Vocabulary building with systematic training in diction and locution. Speeches and oral presentations as well as production and delivery of real-life dialogues.

SCE 3310 Teaching Science in Elementary School: PR: Junior standing or C.I. Selected concepts; organizing for instruction; techniques; evaluation procedures. Materials & Supply fee: $5.25

SCE 4020 Teaching Science and Technology to Young Children: Provides the knowledge and skills needed to plan and implement a discovery science/design technology program for young children in an integrated, interactive curriculum.

SCE 4360 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. Materials & Supply fee: $8.00

SCE 5325 Teaching Middle School Science: PR: EDG 6236 or C.I. This course will provide experiences that promote effective science teaching in grades 5-9 including interdisciplinary teaming, technology use, ESOL, and inquiry in science.

SCE 5632 Issues and Methods in Secondary School Science: PR: EDG 6236 and 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.


SCE 5825 Space Science for Educators: PR: Senior standing or C.I. Introduction to space science, manned space flight, and space education curriculum.

SLS 1501 Strategies for Success in College: This course is designed to address the development of life-skills necessary for the contemporary student to appropriately adjust to college requirements that lead to self-mastery and the total concept of lifetime wellness.

SLS 2311 Overview of Select Medical Careers: An overview of the pre-health professions process for careers in medicine, dentistry, veterinary medicine, optometry, pharmacy, podiatry, and chiropractic. Graded SU.


SOP 3723 Cross Cultural Psychological Research: PR: PSY 2012. Exploration of theories, issues, and research concerned with the psychological understanding of under-represented minority groups.
contexts of social work.

SOW 3420 HPA-SOWK 3(2,1) Social Work with Minorities: PR: SOW 3203, and SOW 3104; PR or CR: SOW 3300. Study of oppressed groups and relevant social work interventions; skill development in work with, and in behalf of, people of minority groups.

SOW 4232 HPA-SOWK 3(3,0) Social Welfare Policies and Issues: PR: SOW 3203 or equivalent. Development of skills needed to critically analyze social welfare goals, structures, and practices. Proposes improvements in societal resource systems.

SOW 4341 HPA-SOWK 3(1,2) Micro-Level Roles and Interventions in Social Work: PR: SOW 3300, SOW 3352. Study and simulated practice of roles and tasks in systemic problem solving with individuals, families and supportive and remedial groups.

SOW 4343 HPA-SOWK 3(1,2) Macro-Level Roles and Interventions in Social Work: PR: SOW 3300, SOW 3352. Study and simulated practice of roles and tasks in systemic problem solving to obtain and improve social welfare resources within organizations and communities.

SOW 4431 HPA-SOWK 3(2,1) Evaluating Social Work Practice and Service Programs: PR: SOW 3401, SOW 3300. The study of systematic data collection and of measurement of change in individuals, families, groups, programs, and communities.

SOW 4510 HPA-SOWK 9(0,28) Field Education: PR: Completion of required courses in major: GPA 2.5 in major. CR: SOW 4522. Supervised learning experiences in agencies that relate social work practice to theory, requiring 420 clock hours in the field. Graded S/U.

SOW 4522 HPA-SOWK 3(2,1) Field Education Seminar: PR: Completion of required courses in major: CR: SOW 4510. Weekly seminar to examine the field experience and to relate theory with practice situations.

SOW 4602 HPA-SOWK 3(3,0) Social Work in Health Settings: PR: SOW 3300 and SOW 3104 or C.I. Study of social work roles, interventions, and issues related to helping patients in health settings.

SOW 4645 HPA-SOWK 3(3,0) Social Services for the Elderly: PR: SOW 3300, SOW 3304, or Gerontology Certificate Major or C.I. Development of interventive skills for obtaining, providing, and improving social services in behalf of elderly persons and their families.

SOW 4650 HPA-SOWK 3(3,0) Child Abuse: Treatment and Prevention: PR: SOW 3300 and Admission to BSW program or C.I. The social worker's role and interventions with victims of child abuse and their family members.

SOW 4654 HPA-SOWK 3(3,0) Children's Services: PR: or CR: SOW 3104. Study of societal responses to children's needs. Development of skills for preventing family breakdown, placing children in alternative care, and reuniting children with their families.

SOW 4673 HPA-SOWK 3(3,0) Social Work Practice: The Gay and Lesbian Experience: PR: SOW 3104 or C.I. Sexual orientation and cultural diversity, policies and resources affecting gay & lesbian people, community based therapeutic and preventive interventions with gay & lesbian clients.

SOW 4705 HPA-SOWK 3(3,0) Prevention and Treatment of Adolescent Substance Abuse: PR: Junior Standing. An in-depth review of prevention, intervention, and treatment, recovery and relapse issues and public policies regarding adolescents with substance abuse problems.

SOW 4706 HPA-SOWK 3(3,0) Intervention with Substance Abusers: PR: Junior Standing. Strategies for working with persons who abuse alcohol, other drugs and substances.

SOW 4730 HPA-SOWK 3(3,0) Documentation in Social Work Practice: PR: SOW 3300 and SOW 3352. For Social Work majors only. Development of documentation skills for the delivery of social work services in various agency settings.

SOW 5105 HPA-SOWK 3(3,0) Human Behavior and Social Environment I: Individual: PR: Admission to MSW program. Study of human development and psychosocial functioning of individuals at various life stages with particular attention to implications of human diversity.

SOW 5106 HPA-SOWK 3(3,0) Human Behavior and Social Environment II: Social Systems: Study of the patterns and dynamics of families, groups, organizations, and communities from a social work and a systems perspective.

SOW 5109 HPA-SOWK 3(3,0) Violence Against Women: A Global Perspective: PR: Graduate status or C.I. An introduction to the types of violence that impact women from a global perspective. Community, political, and economic issues that support violence against women will be discussed by country, ethic group(s) within countries, and religious principles.

SOW 5132 HPA-SOWK 3(3,0) Diverse Client Populations: Study of human diversity, focusing on the needs, resources, problems, and service issues of several identified minority client populations.

SOW 5235 HPA-SOWK 3(3,0) Social Welfare Policies and Services: Study of societal responses to human needs; forces shaping social welfare systems; introduces frameworks for analyzing social policies and services.

SOW 5305 HPA-SOWK 3(3,0) Social Work Practice I: Generalist Practice: Study of social work functions, knowledge, values, roles and skills; the use of a generalist model of practice.

SOW 5306 HPA-SOWK 3(3,0) Social Work Practice II: Intervention Approaches: Study of selected social work theories, strategies, and techniques for helping people and improving system responsiveness to human needs.

SOW 5355 HPA-SOWK 3(3,0) Studies in Social Work Practice: PR: C.I. Analysis of one or more urban practice issues and approaches. May be repeated for credit.

SOW 5387 HPA-SOWK 3(3,0) Nonprofit Resource Development: PR: Admission to certificate program or C.I. Resource Development in nonprofit organizations, including board development and leadership, volunteer program development, staff development, grant funding, fundraising, marketing, and government contract development and management.

SOW 5404 HPA-SOWK 3(3,0) Social Work Research: Study of group research designs in social work; quantitative analyses; and related ethical issues.

SOW 5432 HPA-SOWK 3(3,0) Evaluating Social Work: Study of single case designs in social work; recording methods; behavioral and standardized measures; applications to individuals, families, groups, programs, communities.

SOW 5532 HPA-SOWK 2(2,0) Generalist Field Education I: PR: Admission to MSW Program. Supervised practice of social work in an agency for 224 clock hours. Graded S/U.

SOW 5533 HPA-SOWK 2(2,0) Generalist Field Education II: PR: MSW. Continuation of SOW 5532 Generalist Field Education I in the same field agency for 224 clock hours. Graded S/U.

SOW 5534 HPA-SOWK 1(1,0) Generalist Field Education Integrative Seminar I: PR: Admission to MSW program. CR: SOW 5532. Seminar designed to facilitate student integration of generalist social work practice and theory while strengthening partnerships in the community. Graded S/U.

SOW 5537 HPA-SOWK 1(1,0) 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 with strengthening partnerships in the community. Graded S/U.

SOW 5603 HPA-SOWK 3(3,0) 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.

SOW 5604 HPA-SOWK 3(3,0) Medications in Social Work Practice: PR: graduate standing, post-bac status, senior in SW program or C.I. The study of the effects that psychotropic medications can have within the counseling/helping relationship.

SOW 5624 HPA-SOWK 3(3,0) Social Work Practice in Mexican Culture: PR: C.I. The practice of social work in Mexican culture through cultural immersion, seminars, field visits and language instruction.

SOW 5625 HPA-SOWK 3(3,0) Social Work with Women: Alternative approaches to the treatment of women in the urban setting.

SOW 5635 HPA-SOWK 3(3,0) 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.

SOW 5642 HPA-SOWK 3(3,0) Aging In Social Situations: PR: Admission to MSW program or Gerontology Certificate Program or C.I. Knowledge about elderly in social situations or environmental context.

SOW 5644 HPA-SOWK 3(3,0) Interventions with Elderly and Their Families: PR: Admission to Gerontology graduate certification program or MSW program or C.I. Study of concepts, skills, models and theories for intervening with aged. Special attention is given to minority populations.

SOW 5652 HPA-SOWK 3(3,0) Children Services in Social Work: PR: Graduate standing. Study of societal responses to children's needs. Development of skills for preventing family breakdown,
placements children in alternative care, and reuniting children with their families.

SOW 5655  HPA-SOWK  3(3,0)
Child Abuse: Treatment and Prevention: The social worker's role and interventions with victims of child abuse and their family members.

SOW 5662  HPA-SOWK  3(3,0)
Strategies in Employee Assistance Programs: Techniques for establishing, providing, and evaluating services to people with problems which affect job performance.

SOW 5670  HPA-SOWK  3(3,0)
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.

SOW 5695  HPA-SOWK  3(3,0)
Documentation Skills for Helping Professionals: PR: MSW Social Work Students, C.I. Study of documentation skills and record keeping for helping professionals.

SOW 5712  HPA-SOWK  3(3,0)
Interventions with Substance Abusers: Strategies for working with persons who abuse drugs, alcohol, and other substances.

SOW 5713  HPA-SOWK  3(3,0)
Prevention and Treatment of Adolescent Substance Abuse: PR: Graduate Status or C.I. An indepth review of prevention, intervention and treatment of Adolescent Substance Abuse.

SOW 5846  HPA-SOWK  3(3,0)
Spirituality in Professional Counseling: PR: graduate standing, post-bac status, seniors, or C.I. Examination of spirituality as it relates to professional counseling.

SPA 2631  HPA-COMD  3(3,0)
Issues of Deafness: PR: C.I. The impact of deafness on individual, family and social problems in the deaf community and culture, including historical and changing attitudes toward persons and disabilities.

SPA 3002  HPA-COMD  3(3,0)
Introduction to Communicative Disorders: Etiology, symptoms, and methods of diagnosing and treating communicative disorders. For beginning and prospective majors in communicative disorders.

SPA 3011  HPA-COMD  3(3,0)
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.

SPA 3011L  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.

SPA 3472  HPA-COMD  3(3,0)
Guidance of Young Children with Communicative 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.

SPA 3621  HPA-COMD  3(3,0)
Introduction to Signed English and Culture of the Deaf: Vocabulary and grammar through introductory level. Conceptual basis of ASL discussed.

SPA 3632  HPA-COMD  3(3,0)
Communication Disorders in the Deaf and Hard of Hearing Population: PR: SPA 2011 or C.I. Speech, language, and hearing problems in the Deaf population, including etiology, pathology, and management of hearing disorders.

SPA 4032  HPA-COMD  3(3,0)

SPA 4052L  HPA-COMD  3(3,0)
Undergraduate Clinical Practicum: PR: SPA 4500C, either SPA 4476 or SPA 4475, 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. Materials & Supply 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. Materials & Supply fee: $15.00

SPA 4241  HPA-COMD  3(3,0)
Genetic Aspects of Communication Disorders: PR: BSC 2010C, Junior or senior standing. Theoretical framework for understanding human genetics and the genetic aspects of communication and feeding disorders.

SPA 4321  HPA-COMD  3(3,0)

SPA 4400  HPA-COMD  3(3,0)

SPA 4476  HPA-COMD  3(3,0)
Speech Disorders Across the Lifespan: PR: SPA 3002, SPA 3011, 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.

SPA 4478  HPA-COMD  3(3,0)
Multicultural Aspects: Communication Disorders & Differences: PR: LIN 3711. Cultural and linguistic diversity among individuals with communication disorders and differences. Special emphasis on African, Hispanic, Asian, and Native American.

SPA 4550C  HPA-COMD  5(3,2)
Clinical Methods in Communicative 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.

SPA 4555  HPA-COMD  3(3,0)
Counseling in Communicative Disorders: PR: SPA 4550C. Practical interviewing and counseling in the area of Communicative Disorders.

SPA 4559  HPA-COMD  3(3,0)
Augmentative and Alternative Communication Systems: PR: LIN 3714. The total integrated network of techniques, aids, strategies, and skills individuals use to supplement or replace inadequate natural speaking ability.

SPA 4602  HPA-COMD  3(3,0)
Introduction to American Sign Language: Development of ASL vocabulary and grammar. Deaf culture, literature, research examined.

SPA 4603  HPA-COMD  3(3,0)
Intermediate American Sign Language: Expansion of ASL vocabulary with increased development of knowledge concerning deaf culture.

SPA 4614C  HPA-COMD  4(3,1)

SPA 4615  HPA-COMD  3(4,0)
American Sign Language IV: PR: SPA 4614C or consent of instructor. Advanced study in complex grammar, facial expression, metaphorical and idiomatic vocabulary, emphasizing production of non-voiced, conversational, spontaneous signed sentences, "reading" signed phrases and sentences.

SPA 4617  HPA-COMD  3(3,0)
Structure of American Sign Language: PR: SPA 4602 and SPA 4603 or C.I. Study of phonologic, syntactic, semantic, and discourse structure of ASL, including an emphasis on the biological basis of language and communication.

SPA 4626  HPA-COMD  3(3,0)
Fingerspelling: PR: SPA 4602 and SPA 4603 or C.I. The study and practice of fingerspelling techniques to improve receptive and expressive fingerspelling proficiency beyond basic skill levels.

SPA 4652  HPA-COMD  3(3,0)
Ethics of Interpreting Sign Language: PR: SPA 4602 and SPA 4603. SPA 4614C. A study of the role of the interpreter, including business practices, professional conduct and interpreting settings.
SPA 4660C HPA-COMD 4(3,1) Interactive Interpreting I: PR: SPA 4662, SPA 4603 and SPA 4614C or C.I. Theories, guidelines, principles and practices of interpreting, including interpreter's role, professional behavior and interpreting ethics, and environmental considerations of interpreting situations.

SPA 4662C HPA-COMD 4(3,1) Interactive Interpreting II: PR: SPA 4660C or C.I. Advanced cognitive, linguistic and motor skill development in the use of ASL.

SPA 4948 HPA-COMD 3(0,3) Community Internship: PR: SPA 4655C 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.

SPA 5327 HPA-COMD 3(3,0) Aural Habilitation/Rehabilitation: PR: SPA 6204, SPA 6401. Principles and procedures involved in speech and language acquisition, management, utilization of residual hearing, speechreading, and the use of hearing aids.

SPA 5473 HPA-COMD 3(3,0) Multicult. 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.

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.

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.

SPA 5561 HPA-COMD 3(3,0) Counseling in Communicative Disorders: PR: Senior Status or C.I. Interviewing and counseling for individuals with communication disorders and their families.

SPA 5570 HPA-COMD 3(3,0) Administration and Management of Communication Disorders Programs: PR: SPA 6553, SPA 5327. Methods and techniques for organization and administration of speech-language and hearing disorders in public school, hospital, rehabilitation center, and private practice facilities.

SPC 1016 AS-COMM 3(3,0) Fundamentals of Technical Presentations: Communication theory and its application to preparing and delivering technical information in public speaking situations.


SPC 1600 AS-COMM 3(3,0) Fundamentals of Oral Communication: Communication theory and its application to preparing and delivering public speeches.


SPC 3301 AS-COMM 3(1,2) Interpersonal Communication: Nature of the communication process; variables affecting the process and the individuals involved. Analysis of communication models, interaction behavior, situational cues, verbal and non-verbal messages.

SPC 3425C AS-COMM 3(2,1) Group Interaction and Decision-Making: PR: COM 3311. A study of small group processes. Attention is given to problem solving, leadership emergence, conformity behavior, and group member role responsibilities.

SPC 3513 AS-COMM 3(1,2) Argumentation and Debate: PR: SPC 1600C or C.I. Study and practice in the preparation and delivery of argumentative speeches emphasizing argument, evidence, and organization.

SPC 3602 AS-COMM 3(1,2) Advanced Public Speaking: PR: SPC 1600C or C.I. Advanced training in selecting and organizing materials for various types of speeches. Practice in thinking and speaking before audiences.

SPC 4331 AS-COMM 3(3,0) Nonverbal Communication: PR: COM 3311. Review of current behavioral research in such areas as proxemics, kinesics, physical characteristics, tactile communication, and paralanguage. Lectures are supplemented by frequent nonverbal exercises.

SPC 4426 AS-COMM 3(3,0) Group Dynamics: PR: COM 3311. Human behavior in group situations.

SPC 4540 AS-COMM 3(3,0) Attitudes and Communication: PR: COM 3311. A survey of the immediate and direct ways in which persuasive communications and social groups come to influence attitudes.

SPN 1120 AS-LANG 4(4,1) Elementary Spanish Language and Civilization I: PR: First-year level. Introduces the student to Spanish culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language.

SPN 1121 AS-LANG 4(4,1) Elementary Spanish Language and Civilization II: PR: SPN 1120 or equivalent. Continuation of SPN 1120.

SPN 1121H AS-LANG 4(4,1) Honors Elementary Spanish Language and Civilization I: PR: Permission of Honors. Introduces the student to Spanish culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Honors-level content.

SPN 1130H AS-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.


SPN 1170 AS-LANG 8(16,10) Elementary Spanish Study Abroad: Elementary Spanish language and civilization taught in the native environment.

SPN 2230 AS-LANG 3(3,1) Intermediate Spanish Language and Civilization I: PR: SPN 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level.

SPN 2231 AS-LANG 3(3,1) Intermediate Spanish Language and Civilization II: PR: SPN 2230 or equivalent. Continuation of SPN 2230, with emphasis on Spanish civilization.

SPN 2240 AS-LANG 3(3,1) Intensive Spanish Conversation: PR: One year of Spanish or equivalent. Practical use of the language, leading toward fluency and correctness in speaking at the intermediate level.

SPN 2241 AS-LANG 3(3,0) Spanish Conversation: PR: SPN 2230 or equivalent. Development of skills in conversation and comprehension through practice.

SPN 2340 AS-LANG 3(3,0) Spanish for Native Speakers: PR: Must be a native speaker. Intensive Spanish for native speakers who have had little or no formal training in the language.

SPN 2511 AS-LANG 3(3,0) Modern Spanish Civilization Abroad: PR: SPN 1120 & 1121. This intensive course will focus on modern Spanish culture using examples from present-day society. Cultural visits and realia are essential components of this course.

SPN 3140 AS-LANG 3(3,0) Business Spanish I: PR: SPN 2230 and SPN 2231 or equivalent. Basic business terminology, business culture, and business topics related to the Hispanic World.

SPN 3141 AS-LANG 3(3,0) Business Spanish II: PR: C.I. Continuation of Business Spanish I.

SPN 3142 AS-LANG 3(3,0) Business Spanish III: PR: C.I. Continuation of Business Spanish II.

SPN 3232 AS-LANG 4(3,0) Advanced Directed Readings: PR: SPN 2230 or C.I. Use of Spanish literary and Spanish texts in general, to develop reading comprehension and analysis skills for non-native speakers.

SPN 3300 AS-LANG 3(3,0) Advanced Spanish Grammar and Composition: PR: SPN 2231 or equivalent. Advanced Spanish grammatical topics, idiomatic expressions, and continued development of writing skills based on the newly acquired concepts.

SPN 3341 AS-LANG 3(3,0) Advanced Spanish for Native Speakers: PR: SPN 2340 or C.I. This course is the continuation of SPN 2340 geared towards native speakers and will complete the remaining grammatical topics as well as emphasize composition skills.

SPN 3343 AS-LANG 3(3,0) Advanced Rhetoric for Native Speakers: PR: Third year level oral proficiency. Systematic study of Spanish grammar as applied to rhetoric in standard Spanish for native speakers only.

SPN 3344 AS-LANG 3(3,0) Advanced Spanish Native Fluency I: PR: SPN 3300 or C.I. Advanced grammatical topics and composition skills for native or near-native fluency speakers.

SPN 3345 AS-LANG 3(3,0) Advanced Spanish Native Fluency II: PR: SPN 3344. Continuation of Advanced Spanish Native Fluency I.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPN 3402 AS-LANG 3(3,0)</td>
<td>Practice in Modern Spanish Grammar</td>
<td>PR: SPN 2241 or 3420. This intensive Spanish course will provide the advanced student with practice and drill in modern Spanish using native texts.</td>
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</tr>
<tr>
<td>SPN 3420 AS-LANG 3(3,0)</td>
<td>Spanish Composition</td>
<td>PR: SPN 2231 or equivalent. Development of skills in composition.</td>
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<tr>
<td>SPN 3512 AS-LANG 3(3,0)</td>
<td>Contemporary Spanish Culture Abroad</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.</td>
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</tr>
<tr>
<td>SPN 3760 AS-LANG 3(3,0)</td>
<td>Advanced Spanish Oral Communication</td>
<td>PR: SPN 2231 or SPN 2240 or equivalent. Vocabulary building with systematic training in diction and locution. Speeches and oral presentations as well as production and delivery of real-life dialogues.</td>
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</tr>
<tr>
<td>SPN 3850 AS-LANG 3(3,0)</td>
<td>Structure of the Spanish Language</td>
<td>PR: SPN 3420. Linguistic theory applied to analysis of Spanish language. Includes systematic study of sound patterns, semantics, word formations, and socializations.</td>
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</tr>
<tr>
<td>SPN 3852 AS-LANG 3(3,0)</td>
<td>Bilinguismo</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.</td>
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</tr>
<tr>
<td>SPN 3933 AS-LANG 1(1,0)</td>
<td>Spanish Across the Curriculum</td>
<td>PR: SPN 2231 or C.I. CR-concurrent enrollment in a designated course. Improvement of skills in Spanish within the student's major or minor. Open to students in all colleges. May be repeated for credit.</td>
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<tr>
<td>SPN 4143 AS-LANG 3(3,0)</td>
<td>Business Spanish IV</td>
<td>PR: C.I. Advanced course in business terminology and development of advanced language skills.</td>
<td></td>
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<tr>
<td>SPN 4410 AS-LANG 3(3,0)</td>
<td>Advanced Spanish Composition</td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300 or C.I. Emphasizes the structure as well as the capacity for recognizing the differences between semantics, morphology, syntax, and phonology in the Spanish language, as well as the use and correct application of criteria when analyzing texts. Taught in Spanish.</td>
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<tr>
<td>SPN 3850 AS-LANG 3(3,0)</td>
<td>Hispanic Culture of the United States</td>
<td>PR: Graduate status or senior standing or C.I. An analysis of the Hispanic culture of the United States, past and present.</td>
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<tr>
<td>SPN 5502 AS-LANG 3(3,0)</td>
<td>Spanish Peninsular Culture and Civilization</td>
<td>PR: Graduate status or senior standing or C.I. An analysis of the salient characteristics of Spanish culture and civilization.</td>
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<tr>
<td>SPN 5506 AS-LANG 3(3,0)</td>
<td>Spanish American Culture and Civilization</td>
<td>PR: Graduate status or senior standing or C.I. Emphasizes the structure as well as the capacity for recognizing the differences between semantics, morphology, syntax, and phonology in the Spanish language, as well as the use and correct application of criteria when analyzing texts. Taught in Spanish.</td>
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<tr>
<td>SPN 3420 and SPN 3300, or C.I.</td>
<td>Spanish-American Syntax</td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. The course examines the Spanish language from its beginning to the present, with special emphasis as it is written and spoken in Latin America and the U.S.</td>
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<tr>
<td>SPN 4801 AS-LANG 3(3,0)</td>
<td>Spanish Morphosyntax</td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Emphasizes the structure as well as the capacity for recognizing the differences between semantics, morphology, syntax, and phonology in the Spanish language, as well as the use and correct application of criteria when analyzing texts. Taught in Spanish.</td>
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<tr>
<td>SPN 3300, or C.I.</td>
<td>Spanish Pronunciation and Punctuation</td>
<td>PR: SPN 2241 and SPN 3420. The basic Spanish terminology, techniques, and characteristics of Latin and its evolution into Spanish with historical properties.</td>
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<tr>
<td>SPN 5505 AS-LANG 3(3,0)</td>
<td>Spanish American Syntax and Civilization</td>
<td>PR: Graduate status or senior standing or C.I. An analysis of the salient characteristics of Spanish American culture and civilization.</td>
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<tr>
<td>SPN 5705 AS-LANG 3(3,0)</td>
<td>Introduction to Spanish Linguistics</td>
<td>PR: Graduate status or senior standing or C.I. An introduction to main concepts and methods of analyses focusing on Spanish morphology, syntax, semantics, and phonology as well as dialectology and sociolinguistics.</td>
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<tr>
<td>SPN 5825 AS-LANG 3(3,0)</td>
<td>Spanish Dialectology</td>
<td>PR: Graduate status or senior standing or C.I. Major works by the leading authors of the 20th century Spanish short stories and their authors.</td>
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<tr>
<td>SPN 5845 AS-LANG 3(3,0)</td>
<td>History of the Spanish Language</td>
<td>PR: Graduate status or senior standing or C.I. Major works by the leading authors of the 20th century Spanish short stories and their authors.</td>
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<tr>
<td>SPN 5920 AS-LANG 3(3,0)</td>
<td>AP Spanish Language</td>
<td>PR: Graduate status or senior standing or C.I. Participants will enhance their knowledge of the language and culture of Spanish-speaking peoples and develop further proficiency in listening, comprehension, speaking, reading, and writing.</td>
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<tr>
<td>SPT 3800 AS-LANG 3(3,0)</td>
<td>Spanish Translation and Interpretation</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.</td>
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<tr>
<td>SPT 3805 AS-LANG 3(3,0)</td>
<td>Spanish Translation and Interpretation for Business</td>
<td>PR: SPN 3420. Translation and interpretation in mass communication using all forms of media.</td>
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<tr>
<td>SPT 3809 AS-LANG 3(3,0)</td>
<td>Medical Spanish Translation and Interpretation</td>
<td>PR: SPN 2241 and SPN 3420. The basic Spanish terminology, techniques, and ethics in the field of medical translation and interpretation.</td>
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<tr>
<td>SPT 3831 AS-LANG 3(3,0)</td>
<td>Spanish Legal Translation and Interpretation</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.</td>
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<tr>
<td>SPT 4801 AS-LANG 3(3,0)</td>
<td>Spanish Translation Practicum</td>
<td>PR: SPT 3800. Development of translation and interpretation skills in a professional environment. Concentration in legal, medical, and business areas.</td>
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<tr>
<td>SPW 3000H AS-LANG 3(3,0)</td>
<td>Honors: Nobel Prize Literature: Spain and Latin America</td>
<td>PR: Permission of Honors and Junior standing or C.I. Students will analyze, discuss and research English translations of Spanish and Latin American Nobel-Prize-Winning writers. Through readings, students will explore the universality of Spanish literature.</td>
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<tr>
<td>SPW 3100 AS-LANG 3(3,0)</td>
<td>Survey of Spanish Literature I</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.</td>
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<tr>
<td>SPW 3101 AS-LANG 3(3,0)</td>
<td>Survey of Spanish Literature II</td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works of the Nineteenth century to the present.</td>
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<tr>
<td>SPW 3130 AS-LANG 3(3,0)</td>
<td>Survey of Latin-American Literature I</td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works from the colonial period to Nineteenth Century Romanticism.</td>
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<tr>
<td>SPW 3131 AS-LANG 3(3,0)</td>
<td>Survey of Latin-American Literature II</td>
<td>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.</td>
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<tr>
<td>SPW 3320 AS-LANG 3(3,0)</td>
<td>Modern Hispanic Theatre Workshop I</td>
<td>PR: C.I.</td>
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<tr>
<td>SPW 3370 AS-LANG 3(3,0)</td>
<td>Spanish Short Story</td>
<td>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.</td>
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<tr>
<td>SPW 4272 AS-LANG 3(3,0)</td>
<td>20th Century Spanish Novel</td>
<td>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.</td>
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<tr>
<td>SPW 4310 AS-LANG 3(3,0)</td>
<td>Golden Age Drama</td>
<td>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.</td>
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<tr>
<td>SPW 4322 AS-LANG 3(3,0)</td>
<td>Contemporary Iberian Theatre</td>
<td>PR: SPW 3101 or C.I.</td>
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</table>
study of the major playwrights and tendencies in contemporary Iberian theatre.

SPW 4364 AS-LANG 3(3,0) Latin-American NarrativeEssay: PR: SPW 3100 or SPW 3130 or SPW 3131 or SPW 3370 or C.I. Study of Latin-American narrative/essay (changing topics by semester) with emphasis in 20th century texts, contrasting techniques, procedures, and literary theories. Course could be repeated for credit when topic changes.

SPW 4361 AS-LANG 3(3,0) Latin-American Theatre/Poetry: PR: SPW 3100 or SPW 3130 or SPW 3131 or SPW 3370 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.

SPW 5776 ED-TLP 3(3,0) Democracy and Education: 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.

SPW 4382 AS-LANG 3(3,0) Central American Literature: PR: SPW 3311 or C.I. This course familiarizes the student with literary works of prominent writers from Central America, it covers the different literary periods within Central America literary history. Taught in Spanish.

SPW 4450 AS-LANG 3(3,0) Spanish Literary Theory: PR: SPW 3100 and SPW 3131, or SPW 3130 and SPW 3131, or C. I. A study of textual criticism with emphasis in the theory of genre.

SPW 4460 AS-LANG 3(3,0) Nineteenth Century Spanish Literature: PR: SPW 3101 or C.I. A study of the representative authors and works in Spanish Romanticism, Realism, and Naturalism.

SPW 4600 AS-LANG 3(3,0) Cervantes: PR: SPW 3100 or C.I. Don Quixote.

SPW 4720 AS-LANG 3(3,0) The Generation of 1898: PR: SPW 3101 or C.I. A study of the generation's main authors and their works.

SPW 4730 AS-LANG 3(3,0) Hispano-Literature of the United States: PR: SPW 3101 or SPW 3131 or C.I. Reading and study of outstanding works written by Hispanic writers of the United States.

SPW 4770 AS-LANG 3(3,0) Caribbean Spanish Literature: PR: SPW 3101 or SPW 3131 or C.I. An overview of the literature of the Spanish-speaking Caribbean countries from colonial times to the present.

SPW 4772 AS-LANG 3(3,0) Black Presence in Contemporary Latin American Literature: PR: SPW 5011 or SPW 3131 or C.I. Analysis and discussion of representative contemporary work of authors who have included the black character as part of their narrative.

SSE 3312 ED-TLP 3(3,0) Teaching Social Science in the Elementary School: PR: Admission to Phase II or C.I. Selected themes, problems, and concepts; organizing for instruction; techniques; evaluation procedures.

SSE 4361 ED-TLP 4(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.

SSE 5115 ED-TLP 3(3,0) Methods in Elementary School Social Science: PR: EDG 4323. Study of instructional programs in social sciences; objectives; materials; techniques; current research; and their application in elementary school setting.

SSE 5391 ED-TLP 3(3,0) 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.

SSE 5790 ED-TLP 3(3,0) Inquiry and Instructional Analysis in Social Science Education: PR: Admission to M.A. program or alternative certification certificate program. Study of instructional programs in social science education and related scholarship; development of an inquiry about the intersection of theory and practice in social science teaching.

STA 1060C AS-STAT 3(2,1) Basic Statistics Using Microsoft Excel: PR: SPW 3100 or C.I. Don Quixote. Credit will not be given for both STA 1060C and STA 2014C.

STA 2023 AS-STAT 3(3,0) Statistical Methods I: PR: MAC 1105 or MGF 1106. First methods course introducing probability and statistical inference, including estimation, hypothesis testing, binomial and normal distributions, sample size.

STA 2023H AS-STAT 3(3,0) Honors Statistical Methods I: PR: Permission of Honors Calculus desired by not necessary. Same as STA 2023 with honors-level content.

STA 2032 ECS-EIM 3(3,0) Probability and Statistics for Engineers: PR: MAC 2312 and computer programming. Axioms of probability; combinatorial and geometrical probability; probability distributions; measures of location and dispersion; sampling and sampling distributions; estimation and tests of hypotheses; engineering applications.

STA 2096 AS-STAT 3(3,0) Statistical Graphics: PR: STA 2023 or STA 3032 and a knowledge of a programming language. Principles of graph construction, graphical perception, graphical methods, computer programs for graph construction.

STA 4002 AS-STAT 3(3,0) Computer Processing of Statistical Data: PR: STA 4163 and knowledge of a programming language. Use of packages such as SAS, BMD, SPSS for data validation, description and analysis of data, regression and analysis of variance and covariance.

STA 4130 AS-STAT 3(3,0) Life Contingencies II: PR: STA 4183 (or new number STA 4130?). Multiple-decrement and multi-life models. Insurance models including expenses. Modified reserves. Cash values, insurance options and asset shares. Non-forfeiture benefits and dividends.

STA 4163 AS-STAT 3(3,0) Statistical Methods II: PR: STA 2023 or STA 3032. Not open to students with credit in STA 4165. Methods of analyzing data, statistical models, estimation, tests of hypotheses, regression and correlation, an introduction to analysis of variance, chi-square, and nonparametric methods.

STA 4164 AS-STAT 3(3,0) Statistical Methods III: PR: STA 4163. A continuation of STA 4163, including further study of regression, analysis of variance and covariance and multiple comparisons.

STA 4173 AS-STAT 3(0,0) Biostatistical Methods: CR: STA 4163. Introduction to the application of statistical principles and methods to problems in medical, biological, and health sciences.

STA 4183 AS-STAT 3(3,0) Theory of Interest: PR: MAC 2312 (or equivalent) and STA 2023. Measurement of simple and compound interests, accumulated and present values factors. Annuities certain, yield rates, amortization schedules and sinking funds. Bonds, securities and related funds.


STA 4321 AS-STAT 3(3,0) Statistical Theory I: PR: STA 2023 or STA 3032; CR: MAC 2313. Probability axioms, discrete and continuous sample spaces, conditional probability, independence, one-dimensional random variables, moment generating functions, transformations, jointly distributed random variables.


STA 4502 AS-STAT 3(3,0) Nonparametric Statistical Methods: PR: STA 2023 or STA 3032. Distribution-free tests on location and dispersion, goodness of fit tests, tests of independence, measures of association, nonparametric analysis of variance.

STA 4504 AS-STAT 3(3,0) Categorical Data Analysis: PR: STA 4163 or STA 4165. Two-way and three-way contingency tables, odds ratios, partial association, logistic regression and log linear models.


STA 4664 AS-STAT 3(3,0) Statistical Quality Control: PR: STA 2023 or STA 3032. Statistical concepts and methods applied to the control of quality of manufactured products.
Measurement of Interest, valuation of annuities, determining problems in actuarial science. May be repeated for credit.

Fundamental mathematical and statistical tools for quantitative methods. PR: STA 4164. Graduate status or senior standing, or C.I.

Problems in Actuarial Science: PR: STA 4322.


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.

Statistical Analysis: PR: STA 4183 or STA 4164. Graduate status or senior standing, or C.I. Sociological data collections, sampling and field practice in surveying measurements and the utilization of sociological principles in the treatment of practical human problems and organization.

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.


Race and Ethnic Minorities in the United States: Theoretical analysis of the emergence, maintenance, and disruption of patterns of racial and ethnic stratification.


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.

Modern Law in Indian Country: PR: 2000 level social science course or C.I. Examination of unique legal relationships between American Indian governments and state federal governments. Legal issues include criminal justice, child welfare, and land ownership.

Sex Roles in Modern Society: The traditional and changing roles of women and men viewed in a sociological perspective.

Population: Concerned with the study of human population, its distribution, composition, and change.

Environmental Sociology: PR: SYG 2000 or C.I. Applies the sociological perspective and sociological methods of analysis to the relationships between human behavior and the environment.
SYD 4813 AS-SOC/AN 3(3,0) Women and Social Policy: PR: SYG 2000 or SYG 2010 or C.I. The process of social movements and how they impact legalized social norms for women in public and private life.

SYD 5795 AS-SOC/AN 3(3,0) Class, Race, and Gender in American Society: PR: Graduate status or senior standing or C.I. Using theoretical and empirical studies, this course will provide a sociological examination of the intersections of race, class, and gender in American society.

SYG 2000 AS-SOC/AN 3(3,0) General Sociology: Introduction to the sociological perspective and the scientific study of sociological concepts, theories, processes, and methods used in understanding contemporary human behavior in group interaction.

SYG 2000H AS-SOC/AN 3(3,0) General Sociology: PR: Permission of Honors. Honors work in the field of Sociology. Expectations, requirements, and standards are greater than for standard General Sociology.

SYG 2010 AS-SOC/AN 3(3,0) Social Problems: Analysis of major social problems such as mental disorders, sexual deviance, racial discrimination, poverty, community disorganization, and violence.

SYG 3949 AS-SOC/AN 0(0,8) Cooperative Education in Sociology: PR: Departmental permission required before registering. Cooperative education experience in sociology. May be repeated. Graded S/U.

SYO 3000 AS-SOC/AN 3(3,0) Modern Sociology: PR: SYG 2000 or SYG 2010 or C.I. Exploration of contemporary sociology. Conceptual analysis and methodological techniques, presentation and utilization of sociological literature on major social institutions.

SYO 3360 AS-SOC/AN 3(3,0) Social Organization and Human Relations: Analysis of business, government, and industrial organizations. Topics include organizational theory, social systems, social structure, effects of technology, motivation, leadership, decision-making, and human relations.

SYO 3410 AS-SOC/AN 3(3,0) Sociology of Mental Illness: A sociological examination of mental illness as a social problem; legal aspects of mental illness, and the mental health professions.

SYO 3530 AS-SOC/AN 3(3,0) Social Stratification: PR: SYG 2000 or C.I. Study of class, status and power, cultural variations in stratification systems; patterns of mobility and change.

SYO 4100 AS-SOC/AN 3(3,0) Family Trends: PR: SYG 2000 or SYG 2010 or C.I. Intimate relationships, practices, trends and issues affecting today's marriages and families.

SYO 4200 AS-SOC/AN 3(3,0) Sociology of Religion: PR: SYG 2000 or C.I. The relationship between the religious institution and social stratification, family, education, as well as issues pertaining to gender, race, ethnicity, and age.

SYO 4250 AS-SOC/AN 3(3,0) Sociology of Education: PR: SYG 2000 or C.I. This course examines the sociological dimensions of the educational institutions, including the impact of the social structure on learning and the role of education in social change.

SYO 4300 AS-SOC/AN 3(3,0) Political Sociology: Sociological analysis of political and parapolitical groups; socioeconomic variable of voting behavior, power elites; societies and systems of government.

SYO 4400 AS-SOC/AN 3(3,0) Medical Sociology: Analysis of patient beliefs and behavior, health practitioners, the social organization of hospitals and health services, contemporary problems in the delivery of health care.

SYP 3300 AS-SOC/AN 3(3,0) Collective Behavior: PR: SYG 2000 or C.I. Analysis of relatively unstructured social situations, such as mobs, crowds, etc. as well as more structured forms of collective behavior such as social movements.

SYP 3400 AS-SOC/AN 3(3,0) Social Change: PR: SYG 2000 or SYG 2010 or C.I. Context and essential sources of social development and change.

SYP 3510 AS-SOC/AN 3(3,0) Sociology of Deviant Behavior: PR: SYG 2000 or SYG 2010 or C.I. Sociological examination of the types of, and societal reactions to, deviant behavior with special emphasis on stigmatization.

SYP 3511 AS-SOC/AN 3(3,0) Sociology of Murder: PR: SYG 2000 or SYG 2010 or C.I. An analytical study of murder in the U.S.; topics include different types of homicides, offenders, victims, and circumstances.

SYP 3520 AS-SOC/AN 3(3,0) Criminology: PR: SYG 2000 or SYG 2010 or C.I. Chief causes of anti-social behavior and current methods of prevention and reformation. Effects of heredity and environment, prevalence of delinquency and crime, penal institutions.

SYP 3530 AS-SOC/AN 3(3,0) Juvenile Delinquency: Types of delinquency behavior found among juveniles, possible causes and ways society attempts to treat the various forms of delinquency.

SYP 3540 AS-SOC/AN 3(3,0) Sociology of Law: PR: SYG 2000 or SYG 2010 or C.I. The relationship between law and society, including the functions of law and its organization, social and economic consequences, jury selection, and modern trends.

SYP 3551 AS-SOC/AN 3(3,0) Sociology of Alcoholism: Introduction to the nature of alcoholism and review of its impact on society.

SYP 3562 AS-SOC/AN 3(3,0) Sociological Perspectives on Domestic Violence: PR: SYG 2000 or C.I. Sociological perspectives on all forms of domestic violence, including theoretical explanations, prevalence, risk factors, dynamics of prevention, and intervention.

SYP 3602 AS-SOC/AN 3(3,0) Sociology of Popular Music: PR: SYG 2000 or SYG 2010 or C.I. The role of popular music in social change and in reflecting American culture. Consideration is given to the nature of the popular music business.

SYP 3630 AS-SOC/AN 3(3,0) Sociology of Popular Culture: PR: Junior Standing or C.I. Examines the relationship between contemporary popular culture and social institutions, collective identities, social change, gender, ethnicity and age.

SYP 3650 AS-SOC/AN 3(3,0) Sociology and Sport: PR: SYG 2000 or SYG 2010 or C.I. Utilization of sociological concepts and theories to investigate sport as a social institution. Includes subjects of racism, sexism, drug abuse, violence, and current issues of sport.

SYP 4000 AS-SOC/AN 3(3,0) Sociological Social Psychology: PR: SYG 2000 or C.I. Study of social perception, attitude formation and change, motivation, and decision-making in small groups as affected by social interaction and social processes.

SYP 4004 AS-SOC/AN 3(3,0) Constructing Social Issues: PR: SYG 2000 or SYG 2010 or C.I. Sociological examination of social problems as an emergent process that involves collective definitions and legitimating organizations. Topics include deviance, race, gender and popular culture.

SYP 4323 AS-SOC/AN 3(3,0) Social Systems and Diversity: PR: SYG 2000, junior standing. The formation of social systems in response to social problems and the implementation of public policy. Emphasis on diverse perspectives and ethical positions and their effect on the form and effectiveness of social systems.

SYP 4454 AS-SOC/AN 3(3,0) Sociology of the Global System: PR: SYG 2000 or C.I. Theoretical and empirical examination of the sociological process of global stratification and the countervailing force of an emergent anti-globalization social movement.

SYP 4514 AS-SOC/AN 3(3,0) Sociology of Violence: PR: SYG 2000 or SYG 2010 or C.I. Social roots, culture, circumstances, prevention, and control of violence.

SYP 4521 AS-SOC/AN 3(3,0) Criminal Victimization in Society: PR: SYG 2000 or SYG 2010 or C.I. Crime victims in society; topics include issues related to victimology such as victimization risks and societal treatment of victims.

SYP 4536 AS-SOC/AN 3(3,0) Gangs and Society: PR: SYG 2000 or SYG 2010 or C.I. Gangs in the U.S.; topics include types of gangs, gang members, activities, group processes, and societal responses to gangs.

SYP 4550 AS-SOC/AN 3(3,0) Sociology of Drug Abuse: Analysis of the socio-cultural elements of the drug culture.

SYP 4730 AS-SOC/AN 3(3,0) Sociology of Aging: PR: SYG 2000 or SYG 2010 or C.I. Sociological aspects of aging in America.

SYP 4734 AS-SOC/AN 3(3,0) Minority Aging: PR: SYG 2000 or SYG 3700 or SYP 4730 or C.I. A sociological examination of older populations within minorities: ethnic minorities, women, and gay men and lesbians.

SYP 5005 AS-SOC/AN 3(3,0) Sociological Social Psychology: PR: Graduate status or senior standing or C.I. An exploration of sociological social psychological theories and their application in understanding the effects of society and groups on the individual.

SYP 5525 AS-SOC/AN 3(3,0) Sociological Criminology: PR: Graduate status or senior standing or C.I. To examine current sociological knowledge and research on various issues in Criminology, and to further students' skills in developing/conducting research projects.

SYP 5564 AS-SOC/AN 3(3,0) Seminar on Domestic Violence: Theory, Research and Social Policy: PR: Graduate status or senior standing or C.I. A sociological examination and evaluation of theories, empirical research and social policy related to the study of domestic violence.
domestic violence.
SYP 5615 AS-SOC/AN 3(3,0)
Sociology of Culture: PR: Graduate standing or C.I. Major theoretical approaches and empirical studies in the sociology of culture and analysis of cultural processes.
SYP 5738 AS-SOC/AN 3(3,0)
Seminar on the Welfare State & Aging: PR: Graduate status or senior standing or C.I. A sociological examination of old policies from a cross-cultural perspective.

TAX 2000 BA-ACCT 3(3,0)
Personal Income Tax: PR: Accounting major or minor. A study of federal income tax designated to convey basic tax concepts and skills related to the individual taxpayer. Not open to accounting majors.
TAX 4001 BA-ACCT 3(3,0)
Federal Income Tax I: PR: Accounting major or minor, Junior standing and ACG 3101 with a grade of “C” or better or C.I. Concepts and methods of determining taxable income of individuals, and selected topics.
TAX 5015 BA-ACCT 3(3,0)
Advanced Tax Topics: PR: Accounting major or minor, TAX 4001 or equivalent. Advanced tax issues affecting individuals and business entities, including corporations and partnerships.

THE 2000 AS-THEA 3(3,0)
Theatre Survey: Overview of the art and craft of the theatre. Restricted to non majors. Materials & Supply fee: $15.00
THE 2000H AS-THEA 3(3,0)
THE 2020 AS-THEA 3(3,0)
Survey of Theatre for Majors: PR: Theatre major or departmental consent. Overview of the art and craft of the theatre.
THE 2090 AS-THEA 1(0,20)
Theatre Production/Performance I: PR: B.A. Theatre major or C.I. Non-majors require departmental permission. Participation in UCF Theatre productions. Required of all BA theatre majors. Materials & Supply fee: $15.00
THE 2091 AS-THEA 1(0,20)
Theatre Production/Performance II: PR: THE 2000, B.A. Theatre major and C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent Materials & Supply fee: $15.00

THE 2271 AS-THEA 3(3,0)
THE 2304 AS-THEA 3(3,0)
Script Analysis: PR: Theatre major or minor. Exploration of dramatic form with focus on playscripts for productions.
THE 2925 AS-THEA 0(0,0)
Theatre Participation: PR: Theatre major or department consent. Participation in UCF Theatre productions. May be repeated. Graded S/U.
THE 3082 AS-THEA 3(3,0)

SYP 5615 AS-SOC/AN 3(3,0)
Theatre Production/Performance III: PR: THE 2001, B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent Materials & Supply fee: $15.00
THE 3110 AS-THEA 3(3,0)
Theatre History I: PR: THE 2020 or THE 2000 and (THE 3303 or THE 2XXX (Script Analysis) or TPP 3650) and Theatre major or departmental consent. Development of theatre arts from prehistory through the 17th century.
THE 3111 AS-THEA 3(3,0)
Theatre History II: PR: THE 3100, THE 3305. Theatre major or departmental consent. Theatre arts from the seventeenth century to the present.
THE 3230 AS-THEA 3(3,0)
Commonality within Cultural Diversity Experienced through Theater: PR: THE 2000 or THE 2000. Through the study of dramatic literature, this course explores the commonality of human experience among various cultural groups.
THE 3240 AS-THEA 3(3,0)
THE 3303 AS-THEA 3(3,0)
Play Analysis: PR: Restricted to B.A. Theatre majors or departmental consent. A lecture course providing an overview of different elements found in the world of the play and the written text. Emphasis on theory and structure.
THE 3305 AS-THEA 3(3,0)
Dramatic Literature I: PR: (THE 2000 or THE 2000) and (THE 3303 or THE 2XXX (Script Analysis) or TPP 3650) and Theatre major or departmental consent. Playscripts from Sophocles to Jonson.
THE 3306 AS-THEA 3(3,0)
THE 3312 AS-THEA 3(3,0)
THE 4093 AS-THEA 1(0,20)
Theatre Production/Performance IV: PR: THE 3002, B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent Materials & Supply fee: $15.00
THE 4094 AS-THEA 1(0,20)
Theatre Production/Performance V: PR: THE 4093, B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent Materials & Supply fee: $15.00
THE 4096 AS-THEA 1(0,20)
Theatre Production/Performance VI: PR: THE 4094, Theatre Major or C.I. Participation in UCF Theatre productions. Not restricted to Theatre majors but requires departmental consent. Materials & Supply fee: $15.00
THE 4097 AS-THEA 1(0,20)
Theatre Production/Performance VII: PR: THE 4096, Theatre Major or C.I. Participation in UCF Theatre productions. Not restricted to Theatre majors but requires departmental consent. Materials & Supply fee: $15.00

THE 4098 AS-THEA 1(0,20)
Theatre Production/Performance VIII: PR: THE 4097, Theatre Major or C.I. Participation in UCF Theatre productions. Materials & Supply fee: $15.00
THE 4244 AS-THEA 3(3,0)
THE 4372 AS-THEA 3(3,0)
THE 5246C AS-THEA 3(3,2)
Musical Theatre: PR: graduate 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.
THE 5248 AS-THEA 3(3,0)
Musical Theatre in History: PR: Admission to MFA Musical Theatre Program. A chronological study of musical theatre from early Viennese operetta to the musicals of the modern age. Course will emphasize the work of composers, librettists, and lyricists as well as representative masterworks of a variety of genre. Emphasis will be placed upon historical trends and theatrical viability.
THE 5269 AS-THEA 3(3,0)
Period Props, Furniture & Architecture: PR: Admission into the graduate program, THE 5910, or C.I. Advanced Chronological study of historical genres and styles of furniture, ornament and design and their interrelationships.
THE 5275 AS-THEA 3(3,0)
THE 5307 AS-THEA 3(3,0)
THE 5376 AS-THEA 3(3,0)
Theatre/Drama of Williams, Miller, and Inge: PR: Entrance into the Graduate program. Study of Tennessee Williams, Arthur Miller, and William Inge from a literary, performance, and historical view, instilling in students a knowledge/appreciation of their plays.
THE 5385 AS-THEA 3(3,0)
Dramatic Literature for Children: PR: Admission to MFA graduate program or C.I. An in-depth study of the growth and development of dramatic literature for children.
THE 5386 AS-THEA 3(3,0)
Oral Interpretation of Children’s Literature: PR: Admission to MFA graduate program or C.I. The study of interpreting literature for and with the young.
THE 5910 AS-THEA 3(3,0)
Research Methods in Theatre: PR: MFA and MA in Theatre. Practice knowledge, skills and techniques needed by students to conduct research to include organization, styles, footnotes, and bibliographic forms.
THE 5945L AS-THEA 1(0,20)
Theater Practicum I: Pr: Graduate status or C.I. A laboratory course designed to develop students' practical working knowledge in Theater

THE 5946L AS-THEA 1(0,20)
Theater Practicum II: Pr: Admission into the graduate program, Theater Practicum I. A laboratory course designed to develop students' practical working knowledge in theater

TPA 2000C AS-THEA 3(2,2)

TPA 2210 AS-THEA 3(3,6)

TPA 2211 AS-THEA 3(3,6)

TPA 2220 AS-THEA 3(2,2)
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.

TPA 2248C AS-THEA 2(2,2)

TPA 2290 AS-THEA 1(0,20)
Theatre Production/Performance I: Pr: Not restricted to Theatre majors but requires Departmental consent. Participation in Theatre Production. Required of all B.F.A. technical theatre/design majors. Materials & Supply fee: $15.00

TPA 2291 AS-THEA 1(0,20)
Theatre Production/Performance II: Pr: TPA 2290, open to non-Theatre majors with Departmental consent. Participation in Theatre Production. Required of all B.F.A. technical theatre/design majors. Materials & Supply fee: $15.00

TPA 3040 AS-THEA 3(2,2)
Costume Design: Pr: TPA 2000C, TPA 2071C, TPA 3230, TPA 3044C and B.F.A. Theatre majors. Lecture/laboratory application of the fundamentals of design, composition, color theory, and figure drawing as they relate to costume design. Includes script/character analysis and project design work with emphasis on visualization of design concepts and costume renderings. Required of all B.F.A. technical theatre/design majors.

TPA 3043C AS-THEA 3(3,1)
Costume History I: Pr: CR: THE 3110. Theatre majors or departmental consent. Costume fashion from ancient Egypt to the mid 17th century, including basic period silhouette, costume parts and accessories.

TPA 3044C AS-THEA 3(3,1)
Costume History II: Pr: TPA 3043C. Restricted to Theatre majors or departmental consent. Costume Fashion from the mid 17th century to the present, including basic period silhouette, costume parts and accessories.

TPA 3060C AS-THEA 3(2,2)
Scenic Design I: Pr: TPA 2000C, TPA 2071C, TPA 3250, and (THE 3003 or THE 2XXX (Script Analysis) or TPP 3650) and B.F.A. Theatre major. Continuation of design, composition, color theory, drafting, perspective drawing, and rendering as they relate to scenic design. Required of all technical theatre/design majors.

TPA 3061 AS-THEA 3(2,2)
Scene Design II: Pr: TPA 2000C, TPA 3060C. Restricted to B.F.A. Technical Theatre/Design majors or Departmental consent. 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.

TPA 3077 AS-THEA 2(2,2)
Scene Painting: Pr: TPA 2210 and B.F.A. Technical Theatre Design majors or Stage Management majors. Study of the art and craft of painting for the theatre. Research into period designs and execution of examples selected from a variety of styles. Required of all B.F.A. technical theatre/design majors. Materials & Supply fee: $15.00

TPA 3195 AS-THEA 3(0,30)
Theatre Studio/Tech/Design: Pr: TPA 2211. Restricted to Theatre majors or departmental consent. Production assignments and responsibilities during the rehearsals/performances of play scripts produced on UCF mainstage. May be repeated for credit.

TPA 3197 AS-THEA 3(0,30)
Summer Theatre Studio/Design/Performance: Pr: Departmental consent. Production assignments and responsibilities during the rehearsals/performances of play scripts produced on UCF mainstage. May be repeated for credit.

TPA 3216C AS-THEA 3(3,4)
Stagecraft III: Pr: TPA 2211, BFA Design/tech or Stage Management major. A continuation of TPA 2211 with emphasis on special projects. Materials & Supply fee: $15.00

TPA 3221 AS-THEA 3(2,2)
Lighting Design: Pr: TPA 2220 and TPA 3250 and B.F.A. Theatre majors. Continuation of Stage TPA 2220. Lecture/laboratory with emphasis on lighting design theory, style and individual lighting design projects. Required of all B.F.A. technical theatre/design majors.

TPA 3230 AS-THEA 3(2,2)
Costume Construction: Pr: TPA 2220 or TPA 3290, and BFA Design/tech or Stage Management majors or Department Consent. Lecture/laboratory study of the basic techniques used in the drafting, cutting, fitting, and construction of stage costumes. Required of all technical theatre/design majors. Materials & Supply fee: $15.00

TPA 3249 AS-THEA 2(2,2)
Advanced Makeup Techniques: Pr: TPA 2248C.

Restricted to B.F.A. theatre majors or departmental consent. Lecture/laboratory study of basic techniques needed for the creation of stage and film prosthetics and masks. Materials & Supply fee: $15.00

TPA 3250 AS-THEA 2(2,2)

TPA 3251 AS-THEA 2(2,2)

TPA 3260 AS-THEA 3(3,0)
Sound Design For The Theatre: Pr: TPA 2000 or TPA 2010, TPA 2211. Restricted to Theatre majors or departmental consent. Exploration of the aesthetic and technological aspects of sound as they relate to the art and craft of theatre majors.

TPA 3401 AS-THEA 3(3,0)
Theatre Careers for Tech/Management: Pr: B.F.A. Theatre majors. Junior standing. Exploration and assimilation of successful marketing techniques needed to secure employment in Theatre or related segments of the entertainment industry.

TPA 3601 AS-THEA 3(3,0)
Stage Management: Pr: TPA 2291, TPA 3600, TPA 3610, TPA 2210, TPA 2211. Restricted to Theatre majors or departmental consent. Examination of the importance, function, and responsibilities of the stage manager prior to, during and after performance. Introduction to the fundamentals of stage management as related to Departmental productions as well as professional union requirements. Required of all B.F.A. Stage Management majors.

TPA 4041C AS-THEA 3(2,2)
Costume Design II: Pr: TPA 3040. A continuation of Costume Design I. Costume Design including research, color, body types, and fabric to generate costume design sketches for theoretical play productions.

TPA 4293 AS-THEA 1(0,20)

TPA 4294 AS-THEA 1(0,20)
Theatre Production/Performance IV: Pr: TPA 4293. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent Materials & Supply fee: $15.00

TPA 4295 AS-THEA 1(0,20)
Theatre Production/Performance V: Pr: TPA 4294. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent Materials & Supply fee: $15.00

TPA 4296 AS-THEA 1(0,20)
Theatre Production/Performance VI: Pr: TPA 4295. Restricted to Theatre majors or departmental consent. Participation in UCF Theatre productions. Required of all B.F.A. Design/tech and Stage Management majors. Materials & Supply fee: $15.00

TPA 4297 AS-THEA 1(0,20)
Theatre Production/Performance VII: Pr: TPA 4296. Restricted to Theatre majors or departmental consent. Participation in UCF Theatre productions. Required of all B.F.A. Design/tech and Stage Management majors. Materials & Supply fee: $15.00

UCF Courses and Descriptions
### B.F.A. DesignTech and Stage Management Majors

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Prerequisites</th>
<th>Description</th>
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<tbody>
<tr>
<td>TPA 4296</td>
<td>Theatre Production/Performance VIII</td>
<td>PR: TPA 4297, Restricted to Theatre majors or Departmental consent. Participation in UCF Theatre productions. Required of all B.F.A. DesignTech and Stage Management Theatre majors. Materials &amp; Supply fee: $15.00</td>
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<tr>
<td>TPA 4400</td>
<td>Theatre Management</td>
<td>PR: TPA 2211, TPA 2201. Restricted to theatre majors or Departmental consent. Study of the development, organization, management, funding, and promotion of theatre programs. Additional emphasis placed on management theory and style.</td>
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<tr>
<td>TPA 4602</td>
<td>Advanced Stage Management</td>
<td>PR: TPA 3601, B.F.A. Stage Management major. Skills necessary for stage managers in contemporary entertainment.</td>
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</tr>
<tr>
<td>TPA 4940</td>
<td>Technical Theatre/Design Internship</td>
<td>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.</td>
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<tr>
<td>TPA 5042C</td>
<td>Costume Design Studio</td>
<td>PR: Admission into the graduate program. TPA 3403C, TPA 3044C, or C.I. Project oriented course in the advance study of Costume Design</td>
<td></td>
</tr>
<tr>
<td>TPA 5062C</td>
<td>Scene Study Studio</td>
<td>PR: Graduate status or C.I. Advanced work in the conceptualization and communication of scenic designs for the theatre</td>
<td></td>
</tr>
<tr>
<td>TPA 5081</td>
<td>Design Concepts for Youth Theatre</td>
<td>PR: Admission to MFA graduate program or C.I. A study of design elements (lighting, costume, set) as they apply to youth theatre.</td>
<td></td>
</tr>
<tr>
<td>TPA 5256C</td>
<td>AutoCad 2D for Theatre</td>
<td>PR: Admission into the MFA Design Program. Two-Dimensional computer drafting and editing techniques applicable to theatre design.</td>
<td></td>
</tr>
<tr>
<td>TPA 5290C</td>
<td>AutoCad 3D for Theatre</td>
<td>PR: Admission into the graduate program and TPA 5258C. Three-dimensional computer drafting and editing techniques applicable for theatre design.</td>
<td></td>
</tr>
<tr>
<td>TPA 5405</td>
<td>Theatre Management for Non-Majors</td>
<td>PR: TPE 2020 or TPE 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/perform-ance as they relate to theatre organizations/institutions.</td>
<td></td>
</tr>
<tr>
<td>TPA 5885C</td>
<td>Puppetry</td>
<td>PR: Admission to MFA graduate program or C.I. Puppetry as an art form in design and performance.</td>
<td></td>
</tr>
<tr>
<td>TPA 5946C</td>
<td>Design Practicum</td>
<td>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</td>
<td></td>
</tr>
<tr>
<td>TPA 5949C</td>
<td>Design Practicum</td>
<td>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</td>
<td></td>
</tr>
</tbody>
</table>

### MFA Graduate Program or C.I.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPA 2110C</td>
<td>Acting I - Introduction</td>
<td>PR: Or CR: (THE 3033 or THE 3XXX (Script Analysis) or TPR 3650) and (THE 2020 or THE 2000) and B.F.A. Theatre major. Introduction to acting with emphasis on development of imagination, self-awareness, and the ability to execute basic stage tasks.</td>
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<tr>
<td>TPA 2170C</td>
<td>Acting II - Fundamentals</td>
<td>PR: TPR 2110C, DAA 2200C, and (THE 3033 or THE 3XXX (Script Analysis) or TPR 3650) and (THE 2020 or THE 2000) and (TPR 2710C or MUT 1004) and BFA Theatre Performance/Musical Theatre major. Fundamental techniques to acting, with emphasis on characterization and character development.</td>
<td></td>
</tr>
<tr>
<td>TPA 2191</td>
<td>Theatre Production/Performance I</td>
<td>PR: Not restricted to Theatre majors but requires departmental consent. Participation in UCF Theatre Productions. Required of all B.F.A. theatre performance majors. Materials &amp; Supply fee: $15.00</td>
<td></td>
</tr>
<tr>
<td>TPA 2260</td>
<td>Acting for Film</td>
<td>PR: Film Majors. An introduction to acting for the camera.</td>
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</tr>
<tr>
<td>TPA 3172C</td>
<td>Acting I - Characterization</td>
<td>PR: TPR 2170C, DAA 2200C, and (THE 2020 or THE 2000) and (THE 3033 or THE 2XX (Script Analysis) or TPR 3650) and (TPR 3711C or TPR 3257) and BFA performance major. Advanced work in character-ization, character development, and basic audition processes.</td>
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</tr>
<tr>
<td>TPA 3197</td>
<td>Summer Theatre/Performance</td>
<td>PR: Open to non-Theatre majors with departmental consent. Production assignments and responsibilities during the rehearsals/performances of play scripts produced on the UCF mainstage. May be repeated for credit.</td>
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</tr>
<tr>
<td>TPA 3223</td>
<td>Theatre Careers for Performance</td>
<td>PR: B.F.A. Theatre Major, Junior standing. Exploration and assimilation of successful marketing techniques needed to secure employment in Theatre or related segments of the entertainment industry</td>
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</tr>
</tbody>
</table>

### Materials & Supply fee: $15.00

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPA 3510C</td>
<td>Movement for the Actor</td>
<td>PR: DAA 2200C, DAA 2201C, TPR 2110C, TPR 2170C, BFA Performance Major. Active physical exploration of relaxation, release, and strengthening exercises designed to help the actor develop a more expressive body.</td>
<td></td>
</tr>
<tr>
<td>TPA 3512C</td>
<td>Stage Combat</td>
<td>PR: TPR 3172C, THE 3110, DAA 2570C, BFA performance/musical theatre major. Stage combat with emphasis on hand-to-hand combat, sword, epee and rapier fighting.</td>
<td></td>
</tr>
<tr>
<td>TPA 3650</td>
<td>Script Analysis</td>
<td>PR: Restricted to B.F.A. Theatre majors. Exploration of dramatic form and structure by learning to read, analyze, and understand playscripts for productions. The study of the playscript as a blueprint for production. Required of all B.F.A. Theatre majors.</td>
<td></td>
</tr>
<tr>
<td>TPA 3711C</td>
<td>Voice Production II</td>
<td>PR: TPR 2110C, TPR 2710C, DAA 2200C, and (THE 3033 or THE 2XX (Script Analysis) or TPR 3650) and BFA performance major. Continuation of Voice Production I; correct speech on the stage, intensified study of phonetics.</td>
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</tr>
<tr>
<td>TPA 3712C</td>
<td>Voice Production III</td>
<td>PR: TPR 2170C, TPR 3171C, DAA 2201C, and (THE 3033 or THE 2XX (Script Analysis) or TPR 3650) and BFA performance major. Continuation of Voice Production II; emphasis on study of Shakespeare and heightened language.</td>
<td></td>
</tr>
<tr>
<td>TPA 3730C</td>
<td>Voice Production IV</td>
<td>PR: TPR 3712C, or TPR 4142C or TPR 3258, BFA performance/musical theatre major. Continuation of Voice Production III; the analysis and sounds of foreign dialects and regional accents; study of stage voice for age and character roles.</td>
<td></td>
</tr>
</tbody>
</table>
| TPA 3952    | Studio Performance | PR: Junior standing or C.I. Not restricted to Theatre majors but requires departmental consent. Studio performance provides the specific application of
theatre artist's training to full scale theatre productions. May be repeated for credit.

TPP 4140C AS-THEA 3(2,2) Musical Theatre Voice III: PR: Theatre majors or departmental consent, and TPP 2288. The diagnosis and development of the singing voice and its application to musical theatre performance. 


TPP 4143C AS-THEA 3(2,2) Acting Styles: PR: TPP 4142C. An advanced and comprehensive view of acting styles.


TPP 4221 AS-THEA 3(3,0) Auditioning: PR: Sr. standing in BFA performance or musical theatre. Selecting monologues, auditioning techniques and cold readings.


TPP 4254 AS-THEA 3(3,0) Musical Theatre Acting Performance IV: PR: Musical Theatre majors or departmental consent, TPP 4253. Continuation of advanced study for performance on the musical theatre stage. Emphasis placed on show preparation and the rehearsal process.

TPP 4255 AS-THEA 3(3,1) Musical Theatre Cabaret: PR: Musical Theatre majors or departmental consent, TPP 4254. A capstone training and rehearsal class that emphasizes the construction and performance style of the cabaret/revue genre.

TPP 4259 AS-THEA 2(2,2) Musical Theatre Voice II: PR: Theatre majors or departmental consent, and TPP 2288. The diagnosis and development of the singing voice and its application to musical theatre performance.

TPP 4265C AS-THEA 3(3,2) Acting VI - Acting for TV/Film: PR: TPP 4140C, TPP 4142C, TPP 4531C, TPP 3710C. Restricted to B.F.A. Theatre Performance majors. Lecture/laboratory study designed to expose the student to practical techniques of television and film acting. Extensive studio work.

TPP 4268 AS-THEA 3(2,2) Acting VII Advanced Acting For TV/Film: PR: TPP 4265C. A practical, detailed, and structured approach to acting for the camera by working on a TV/Film project.


TPP 4312 AS-THEA 3(2,15) Workshop Studio Theatre: PR: TPP 3712C, TPP 2191, TPP 3310C, TPP 3601, and a grade of "A" in TPP 4311. Restricted to Theatre majors or departmental consent. Exploring the various aspects of mounting a one-act play, including play analysis, research, staging techniques, and other areas of directing for advanced directors. May be repeated for credit.

TPP 4531C AS-THEA 2(2,2) Period Movement: PR: TPP 4140C or TPP 3525, TPP 3512C or DAA 2571C, B.F.A performance/musical theatre major. Continuation of Movement/Dance work. Emphasis given to period movement styles and dance.

TPP 4923 AS-THEA 2(2,2) Musical Theatre Voice IV: PR: Theatre majors or departmental consent, and TPP 4259. Continuation of the diagnosis and development of the singing voice and its application to musical theatre performance.

TPP 4940 AS-THEA 6(0,40) Theatre Performance Internship: PR: Restricted to B.F.A. Theatre performance majors, the internship is subject to Departmental approval. Off-campus internship programs provide opportunity for practical work in professional theatre. Contact the Departmental office for specific requirements. Required of all B.F.A. theatre performance majors.

TPP 5125C AS-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.

TPP 5156C AS-THEA 3(2,2) Acting Studio I: PR: Admission to MFA Performance Program. An advanced scene study course with emphasis on scene analysis and character development and application of acting techniques in modern contemporary American plays.

TPP 5157C AS-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 (1850-) European playwrights with emphasis on the plays of Ibsen/Chékhov/Shaw.

TPP 5273 AS-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.

TPP 5289C AS-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.

TPP 5386 AS-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.

TPP 5515 AS-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.

TPP 5516C AS-THEA 2(2,1) Movement Studio II: PR: TPP 5515 or C.I. Principles and methods of movement for the stage focusing on gaining specific knowledge and skills in period styles of movement and basic unarmed combat.


TPP 5555C AS-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.

TPP 5715C AS-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, breath, relaxation of physical tension, and articulation.

TPP 5716C AS-THEA 2(2,1) Stage Voice II: PR: Admission to the MFA Performance Program and TPP 5715C or C.I. Continuation of Graduate Voice Production I, studying Skinner's narrow transcription with consonants, review of all Linklater work, and introduction to the work of Arthur Lessac.

TPP 5754 AS-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.

TPP 5935C AS-THEA 2(2,2) Contemporary Practices in Youth Theatre: PR: Admission to MFA graduate program or C.I. Investigation of a particular subject in youth theatre. May be repeated for credit 4 times.

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.


TSL 5143 ED-LAN 3(3,0) ESOL Strategies: PR: Graduate status or senior standing

UCF Courses and Descriptions
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.

TSL 5245 AS-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.

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.

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 methodolody, testing and evaluation of ESOL students, applied linguistics.

TSL 5376 AS-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.

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.

TSL 5940 AS-LANG 3(3,0)
Issues in TEFL: PR: Graduate status or senior standing or C.I. Address issues specifically related to TEFL, such as materials adaptation, teaching in multi-level classrooms, learning styles, cultural issues, and curriculum syllabus design.

TTE 4004 ECS-CEE 4(4,0)

TTE 4601C ECS-CEE 3(2,2)
Urban Systems Design: PR: TTE 4004. Project course on design of transportation and urban systems using engineering design methodologies. Materials & Supply fee: $15.00

TTE 5204 ECS-CEE 3(3,0)
Traffic Engineering: PR: TTE 4004. Study of operator and vehicle characteristics, and design for street capacity, signals, signs, and markings.

TTE 5700 ECS-CEE 3(3,0)
Railroad Engineering: PR: TTE 4004 and C.I. The major technical factors in location, construction, maintenance, and operation of railroad transportation systems.

TTE 5805 ECS-CEE 3(3,0)
Geometric Design of Transportation Systems: PR: TTE 4004. Study of geometric and construction design elements in the engineering of transportation systems.

TTE 5835 ECS-CEE 3(3,0)
Pavement Design: PR: CEG 4101C. Pavement types, wheel loads, stresses in pavement components; design factors such as traffic configurations, environment, and economy.

VIC 3001 AS-R/TV 3(3,0)
Visual Communication: A study of the visual system of man and the influences of the visual media on modern society.
ZOO 5517 AS-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.

ZOO 5520 AS-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.

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. Materials & Supply fee: $15.00

ZOO 5815 AS-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. Materials & Supply fee: $20.00

ZOO 5881C AS-BIOL 4(3,4) Fisheries Management: PR: ZOO 4310C, graduate status or senior standing, or C.I. Fisheries management of freshwater environments to include identification, sampling methods, farming and hatchery operations, propagation and population estimates. Materials & Supply fee: $20.00

ZOO 5891 AS-BIOL 1(1,0) 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.

FACULTY

The date indicates the first year of employment at the University of Central Florida.


ABDEL-ATY, MOHAMED, Associate Professor of Engineering (1995), B.S.C.E., M.S.C.E., Ph.D. (University of California at Davis)

ABEL, EILEEN M., Associate Professor of Social Work (1978), A.B., M.S.W., Ph.D., (Case Western Reserve University)

ABRAHAM, CHARLIE, Associate Professor of Art (1996), B.F.A., M.F.A. (University of Mississippi)

ACIERNO, LOUIS J., Professor of Health Sciences (Cardiopulmonary Science) (1979), B.S., M.D. (Georgetown University)

ACKLEY, TIMOTHY, Visiting Assistant Professor of Education (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 (1996), 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), BA, MSW, Ph. D. (Florida State University)

AMBEIDA, JOHN A., Associate Professor of Music (1997), B.M., M.A. (Appalachian State University)

ALRUTZ, MEGAN, Assistant Professor of Theatre (2004), B.F.A., Ph.D. (Arizona State University)

ALVAREZ, RODNEY, Assistant Professor of History (2000), B.A., M.A., Ph.D. (University of California, Los Angeles)

AMBROSE, MAUREEN L., Professor of Management (1999), B.A., A.M., Ph.D. (University of Illinois at Urbana-Champaign)

AN, LINAN, Assistant Professor of Engineering (2001), Ph.D. (Lehigh University)

ANDREWS, LARRY C., Professor of Mathematics and Electrical and Computer Engineering (1973), B.S., M.S., Ph.D. (Michigan State University)

ANDREWS, SABRINA, Director and University Data Administrator, Institutional Research (1995), B.S., M.S. (Florida State University)

ANGELOPOULOS, THEODORE, Associate Professor of Education (1998), B.S., M.S., Ph.D. (University of Pittsburgh)

ANGLEY, PATRICIA, Instructor of English (1998), B.A., M.A., Ph.D. (University of Hawaii)

ANTHONY, JOBY M., Associate Professor of Mathematics (1970), B.S., M.A.M., Ph.D. (North Carolina State University)

ANTON, WILMA, Assistant Professor of Economics (2001), B.S., M.S., ABD (University of Illinois)

APPLEGATE, BRANDON, Associate Professor of Criminal Justice (1996), Ph.D. (University of Cincinnati)

APPLEN, J.D., Associate Professor of English (1997), B.S., M.F.A., Ph.D. (University of Arizona)

ARK, PAMELA, Assistant Professor (2004), RN, PhD (University of Tennessee - Memphis)

ARMACOST, ROBERT L., Director, University Analysis and Planning Support, and Associate Professor of Engineering (1991), B.S., M.S.O.R., D.Sc. (George Washington University)

ARMSTRONG, JOHN H., Associate Professor of Education (1970), B.S., M.S., Ed.D. (Oklahoma State University)

ARMSTRONG, LEE H., Professor of Mathematics (1968), B.A., M.S., Ph.D. (Florida State University)

ARNAUD, ANKE, Instructor of Management
and Professor of Music (1990), B.A., M.M.E. (University of North Texas)

BROTHERTON, MARK W., Associate Professor of Theatre (1996), B.F.A., M.F.A. (Pennsylvania State University)

BROWN, EMMA J., Chatslos Endowed Professor of Nursing (1999), Ph.D., R.N., C.S. (University of Florida)

BROWN, JAMES C., Assistant Professor of Theatre (2001), B.F.A., M.F.A. (San Diego State University)

BROWN, TIMOTHY, Assistant Professor of Communication (2004), B.A., M.A. (University of South Carolina)


BRUNSON, RICK, Instructor of Communication (2003), B.A., M.A. (University of South Florida)


BURRELL, JASON, E., Instructor (2002), B.A., M.F.A. (University of Cincinnati)

BURROUGHS, DANIEL, Associate Professor of Engineering Technology (2002), B.S., M.S., Ph.D. (Dartmouth College)

BUSCH, KURT, Associate Professor (2003), Ph.D (University of Karlsruhe)

BUSHY, ANGELINE A., Bert Fish Eminent Chair of and Professor of Nursing (1995), B.S.N., M.Ed., M.N., Ph.D. (University of Texas at Austin)

BUTCHER, LONNY J., Visiting Instructor of Management (2001), B.S., M.A. (Louisiana State University - Baton Rouge)

BUTLER, JOHN F., Associate Professor of Communication (1971), B.A., M.A., Ph.D. (University of Florida)

BUTLER, RENE, Assistant Professor of Engineering (2003), Ph.D. (Georgia Tech)

BYERS, JACQUELINE, Associate Professor of Nursing (1996), B.S.N., M.S.N., Ph.D (University of Florida)

BYRD, ANTHONY K., Chair and Associate Professor of Finance (1993), B.S., M.B.A., Ph.D. (University of South Carolina)

CALESTANI, CRISTINA, Assistant Professor of Biology (2003), Ph.D. (University of Parma)

CALLAHAN, JUDITH S., Assistant Professor of Management (2001), B.M.A., Ph.D. (University of Maryland - College Park)

CALLARMAN, WILLIAM G., Associate Professor of Management (1972), B.B.A., M.B.A., Ph.D. (Arizona State University)

CAMP, DONNA J., Associate Professor of Education (1989), B.A., M.Ed., Ph.D. (University of Oklahoma)

CAMPBELL, ANNA, Assistant Professor of Sociology (2005), B.A., M.A. (University of Texas-Austin)

CAMPBELL, JAMES, Associate Professor of English (1996), B.A., M.A., Ph.D. (University of Notre Dame)

CAMPIGlia, ANDRES, Associate Professor of Chemistry (2003), B.S., M.S., Ph.D. (University of Florida)

CAMPINS, HUMBERTO, Professor (2003), Ph.D. (University of Arizona)

CANNON, JOHN R., Professor of Mathematics (1993), B.A., M.A., Ph.D. (Rice University)

CARDARELLI, DIANE, Instructor of Music (2000), Ed.D. (University of Central Florida)

CARON, RICHARD M., Associate Professor of Mathematics (1972), B.A., Ph.D. (Louisiana State University)

CARPENTER, JOHN A., Assistant Professor of English (2003), B.A., M.A., M.I.S., Ph.D. (University of South Carolina)

CARRA, ROBERTO, Visiting Assistant Professor (2004), B.S., M.S., Ph.D. (Carnegie Mellon University)

CASADO, MONTSE, Assistant Professor of Education (2000), B.A., M.A. Ed.S., Ph.D. (University of South Carolina)

CASE, LYNN, Assistant University Librarian (2000), B.A., M.I.L.S. (University of South Florida)

CASH, MASON, Assistant Professor of Philosophy (2003), B.S., Dip.Hum, M. Phil, Ph.D (University of Alberta)

CASMIER-PAZ, LYNN A., Associate Professor of English (1997), B.A., M.A., Ph.D. (University of Pittsburgh)

CASSANELLO, ROBERT V., Visiting Assistant Professor of History (2003), B.A., M.A., Ph.D. (Florida State University)

CATAS, NECATI, Associate Professor of Engineering (2003), B.S.C.E., M.S., Ph.D. (University of Cincinnati)

CATO, FARIDA M., Instructor of English (2003), B.A., M.A. (University of Central Florida)

CELAYA, BEATRIZ, Assistant Professor of Modern languages and Literatures (2003), B.A., M.A., Ph.D. (Washington University, St. Louis)

CHAI, KARL X., Associate Professor of Molecular Biology and Microbiology (1996), B.S., Ph.D. (Medical University of South Carolina)

CHAKRABARTI, DEBOPAM, Associate Professor of Molecular Biology and Microbiology (1995), B.S., M.S., Ph.D. (University of Calcutta-Bose Institute)

CHAKRABARTI, RATNA, Associate Professor of Molecular Biology and Microbiology (1996), B.S., M.S., Ph.D. (University of Calcutta)

CHASE, ARLEN F., Professor of Anthropology (1984), B.A., Ph.D. (University of Pennsylvania)

CHASE, DIANE Z., Interim Assistant Vice President, International and Interdisciplinary Studies, and Pegasus Professor of Anthropology (1984), B.A., Ph.D. (University of Pennsylvania)

CHATTERJEE, MAINAK, Assistant Professor of Engineering (2002), B.S., M.S., PhD (University of Texas at Arlington)

CHAVDA, JAGDISH J., Professor of Art (1972), B.F.A., M.F.A. (Michigan State University)

CHEN, HUEY SHYS, Assistant Professor (2004), B.S., M.S., Ph.D. (University of Texas)

CHEN, PO-JU, Assistant Professor of Engineering (2002), B.S., M.S., PhD (University of Texas at Arlington)

CHEN, QUANFANG, Associate Professor of Engineering (2001), Ph.D. (Tsinghua University)

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(University of Michigan)
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(University of Tennessee)

CHENEY, PAUL H., Chair and Professor of Management Information Systems
(1999), B.S., M.B.A., Ph.D.
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(1999), B.A., J.D.
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CHEW, LARRY, Associate Professor of Engineering
(1990), B.A., B.S., M.S., Ph.D.
(University of Washington)

CHICUREL, STEVEN, Associate Professor of Theatre
(University of Kentucky)

CHIN, MATTHEW, Instructor in Psychology
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(University of California Santa Barbara)

CHO, HYOUNG, Assistant Professor of Engineering
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<td>TOWNSEND, CHARMAINE</td>
<td>Director for United Campus Ministries (2002), B.A., M.A. (Reformed Theological Seminary)</td>
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<td>Director, Community Relations (1994), B.S., B.S.N., M.S. (University of Central Florida)</td>
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<td>Director, Police and Public Safety (1988), B.A., M.A. (State University of New York at Buffalo)</td>
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- **UCF Faculty and Administrative Officers**
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- **WEIDMAN, DIANA**, Director of Eastern Region Campus Life (1984), B.S., M.A. (University of Central Florida)
- **WELCH, KERRY**, Director of Office of Student Personnel Development (1992), B.S.B.A., M.A. (University of Louisville)
- **WILKENING, JAMES**, Associate Director for Recreation and Wellness Center (1992), B.S.B.A., M.A.T. (University of Nebraska)
- **WILLIAMS, ASHLEY B.**, Coordinator of REACH Peer Education and Adjunct Professor (2002), B.S.W., M.S. Ed. (Florida State University)
- **WINFIELD, HERBERT H.**, Associate Director, Technology Transfer (2002), B.S.E.E. (University of Florida), M.S. in Engineering Management (New Jersey Institute of Technology)
- **WRIGHT, EARL, II**, Assistant Professor of Sociology (1999), B.A., M.A., Ph.D. (University of Nebraska)
- **YANCKELLO, ROBERT**, Director, Computer Services and Telecommunications (2004), B.S., M.Ed. (Pennsylvania State University)
- **YOUNG, DENISE L.**, Associate Vice President, Planning and Evaluation (1990), B.A., M.S.W., Ph.D. (University of Michigan)
- **ZIGLER, MICHELE K.**, Assistant Professor, Nursing (University of Central Florida)
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<td>William H. Dial, Doctor of Commercial Science</td>
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<td>August, 1974</td>
<td>Fred C. Clayton, Doctor of Professional Engineering</td>
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<td>Charles N. Millican, Doctor of Laws</td>
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<td>June, 1980</td>
<td>Thelma Vivian Jackson Dudley, Doctor of Humanities</td>
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<td>Buell G. Duncan, Jr., Doctor of Commercial Science</td>
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<td>April, 1982</td>
<td>Robert J. Whalen, Doctor of Engineering Science</td>
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<td>Nicolaas Bloembergen, Doctor of Science</td>
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<td>Andrew Duda, Jr., Doctor of Agricultural Service</td>
<td>December, 1996</td>
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<td>December, 1999</td>
<td>Linda W. Chapin, Doctor of Public Service</td>
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<td>Allen E. Gotieb, Doctor of Laws</td>
<td>May, 2000</td>
<td>Lotfi Zadeh, Doctor of Science</td>
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<td>May, 1985</td>
<td>George J. Becker, Jr., Doctor of Public Service</td>
<td>May, 2001</td>
<td>Richard M. Karp, Doctor of Science</td>
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<td>Walter O. Lowrie, Doctor of Engineering Science</td>
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<td>December, 1988</td>
<td>Sven Caspersen, Doctor of Engineering Science</td>
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<td>Dr. G. Vince Amico, Doctor of Science</td>
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<td>John D. Holloway, Doctor of Public Service</td>
<td>December 14, 2004</td>
<td>Dr. Lester Mandell, Doctor of Commercial Science</td>
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