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The announcements, information, policies, rules, regulations, and procedures set forth in this Catalog are for information only and are subject to continual review and change without notice. As the Catalog may change each year, the most current catalog shall apply with exceptions to be approved by the appropriate academic Dean. For further information, see USF Policy #10-059.

To the extent the catalog references and incorporates Florida Board of Governor and USF Board of Trustee Regulations, USF Policies, and state or federal statutes, it is important to note that the Regulations, Policies and Statutes require separate promulgation outside of the catalog and that promulgation may not coincide with the publication of the Catalog. Accordingly, the most recent and current adopted Regulation, Policy or statute should be applied when following this Catalog.

The University of South Florida is committed to the principles of equal education, equal access, and equal employment opportunities without regard to race, color, marital status, sex, religion, national origin, disability, age, or Vietnam or disabled veteran status as provided by law and in accordance with the University's respect for personal dignity. These principles are applied in the conduct of University programs and activities and the provision of facilities and services.
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<td>January 2</td>
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<td>March 1</td>
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<td>May 31</td>
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<td>July 15</td>
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<td>November 11</td>
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<td>November 28-29</td>
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<td>December 6</td>
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<td>December 7-13</td>
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<td>December 14</td>
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<td>October 1</td>
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<td>October 1</td>
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<td>November 15</td>
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<td>December 2</td>
<td>Monday</td>
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<td>January 6</td>
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<td>January 10</td>
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<td>January 20</td>
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<td>February 7</td>
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<td>March 3</td>
<td>Monday</td>
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<td>March 10-15</td>
<td>Monday-Saturday</td>
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<td>March 22</td>
<td>Saturday</td>
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<td>April 25</td>
<td>Friday</td>
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<tr>
<td>April 26-May 2</td>
<td>Saturday - Friday</td>
</tr>
<tr>
<td>May 2-3</td>
<td>Friday &amp; Saturday</td>
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## ACADEMIC CALENDAR FOR UNDERGRADUATE STUDENTS

### UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG

### SUMMER TERM, 2014

#### SESSION A
(First Six-week Session)

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 2</td>
<td>Thursday</td>
<td>Priority scholarship application deadline for First Time in College (new freshmen) and international students</td>
</tr>
<tr>
<td>March 1</td>
<td>Saturday</td>
<td>Application deadline date for international freshman or transfer applicants outside of the United States to apply for admission and submit all required credentials and supporting documents</td>
</tr>
<tr>
<td>March 1</td>
<td>Saturday</td>
<td>Application deadline for First Time in College Students for Summer semester (new freshmen)</td>
</tr>
<tr>
<td>March 1</td>
<td>Saturday</td>
<td>Application deadline date for undergraduate transfers to apply for admission</td>
</tr>
<tr>
<td>April 14</td>
<td>Monday</td>
<td>Deadline for undergraduate transfers to submit all documentation to complete applicant file</td>
</tr>
<tr>
<td>April 14</td>
<td>Monday</td>
<td>Application deadline for Former Degree Seeking Students applying for the summer term (20 business days prior to the first day of classes)</td>
</tr>
<tr>
<td>May 12</td>
<td>Monday</td>
<td>Classes begin</td>
</tr>
<tr>
<td>May 16</td>
<td>Friday</td>
<td>Last day to withdraw/drop and receive full refund of registration fees - Deadline: 5:00 p.m.</td>
</tr>
<tr>
<td>May 16</td>
<td>Friday</td>
<td>Last day to add courses</td>
</tr>
<tr>
<td>May 16</td>
<td>Friday</td>
<td>Last day for late registration</td>
</tr>
<tr>
<td>May 16</td>
<td>Friday</td>
<td>Last day to pay fees</td>
</tr>
<tr>
<td>May 26</td>
<td>Monday</td>
<td>Memorial Day holiday – USF is closed</td>
</tr>
<tr>
<td>June 6</td>
<td>Friday</td>
<td>Graduation application deadline</td>
</tr>
<tr>
<td>June 7</td>
<td>Saturday</td>
<td>Last day to drop or withdraw from courses without academic penalty - Deadline: 5:00 p.m.</td>
</tr>
<tr>
<td>June 20</td>
<td>Friday</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>August 9</td>
<td>Saturday</td>
<td>Summer Commencement (Tampa) - Tentative Date</td>
</tr>
</tbody>
</table>

#### SESSION B
(Second Six-week Session)

<table>
<thead>
<tr>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>March 1</td>
<td>Saturday</td>
<td>Application deadline date for international freshman or transfer applicants outside of the United States to apply for admission and submit all required credentials and supporting documents</td>
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</tr>
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<td>Saturday</td>
<td>Application deadline date for undergraduate transfers to apply for admission</td>
</tr>
<tr>
<td>April 1</td>
<td>Tuesday</td>
<td>Application deadline date for international transfer applicants currently in the United States to apply for admission and submit all required credentials and supporting documents</td>
</tr>
<tr>
<td>April 15</td>
<td>Tuesday</td>
<td>Deadline for undergraduate transfers to submit all documentation to complete applicant file</td>
</tr>
<tr>
<td>June 2</td>
<td>Monday</td>
<td>Application deadline for Former Degree Seeking Students applying for the summer term (20 business days prior to the first day of classes)</td>
</tr>
<tr>
<td>June 6</td>
<td>Friday</td>
<td>Graduation application deadline</td>
</tr>
<tr>
<td>June 30</td>
<td>Monday</td>
<td>Classes begin</td>
</tr>
<tr>
<td>July 4</td>
<td>Friday</td>
<td>Independence Day holiday – USF is closed</td>
</tr>
<tr>
<td>July 7</td>
<td>Monday</td>
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<tr>
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<td>Monday</td>
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</tr>
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</tr>
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<td>July 26</td>
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<tr>
<td>August 8</td>
<td>Friday</td>
<td>Last day of classes</td>
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<tr>
<td>August 9</td>
<td>Saturday</td>
<td>Summer Commencement (Tampa) - Tentative Date</td>
</tr>
<tr>
<td>Date</td>
<td>Day</td>
<td>Event Description</td>
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</tr>
<tr>
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<tr>
<td>July 4</td>
<td>Friday</td>
<td>Independence Day holiday – USF is closed.</td>
</tr>
<tr>
<td>July 18</td>
<td>Friday</td>
<td>Last day of classes.</td>
</tr>
<tr>
<td>August 9</td>
<td>Saturday</td>
<td>Summer Commencement (Tampa) - Tentative Date.</td>
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The University of South Florida is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award degrees at the baccalaureate, masters, and doctoral level. Inquiries to the Commission should relate only to the accreditation status of the institution and not to general admission information. The Commission is to be contacted only if there is evidence that appears to support an institution's significant non-compliance with a requirement or standard. Contact the Commission on Colleges at: 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of the University of South Florida.

DEGREES* OFFERED BY THE UNIVERSITY

Undergraduate Degrees

Bachelor of Arts (B.A.)
Bachelor of Fine Arts (B.F.A.)
Bachelor of Music (B.M.)
Bachelor of Science (B.S.)
Bachelor of Science in Applied Science (B.S.A.S.)
Bachelor of Science in Athletic Training (B.S.A.T.)
Bachelor of Science in Chemical Engineering (B.S.C.H.)
Bachelor of Science in Civil Engineering (B.S.C.E.)
Bachelor of Science in Computer Engineering (B.S.C.P.)
Bachelor of Science in Computer Science (B.S.C.S.)
Bachelor of Science in Electrical Engineering (B.S.E.E.)
Bachelor of Science in Industrial Engineering (B.S.I.E.)
Bachelor of Science in Information Technology (B.S.I.T.)
Bachelor of Science in Mechanical Engineering (B.S.M.E.)
Bachelor of Social Work (B.S.W.)

Graduate Degrees

Master of Accountancy (M.Acc.)
Master of Architecture (M.Arc.)
Master of Arts (M.A.)
Master of Arts in Bioethics and Medical Humanities (M.A.B.M.H.)
Master of Arts in Teaching (M.A.T.)
Master of Business Administration (M.B.A.)
Master of Chemical Engineering (M.C.H.E.)
Master of Civil Engineering (M.C.E.)
Master of Education (M.Ed.)
Master of Engineering (M.E.)
Master of Environmental Engineering (M.E.V.E)
Master of Fine Arts (M.F.A.)
Master of Health Administration (M.H.A.)
Master of Industrial Engineering (M.I.E.)
Master of Mechanical Engineering (M.M.E.)
Master of Music (M.M.)
Master of Physician Assistant Studies (M.P.A.S.)
Master of Public Administration (M.P.A.)
Master of Public Health (M.P.H.)
Master of Science (M.S.)
Master of Science in Bioinformatics and Computational Biology (M.S.B.C.B.)
Master of Science in Biomedical Engineering (M.S.B.E.)
Master of Science in Biotechnology (M.S.B.)
Master of Science in Chemical Engineering (M.S.C.H.)
Master of Science in Civil Engineering (M.S.C.E.)
Master of Science in Computer Engineering (M.S.C.P.)
Master of Science in Computer Science (M.S.C.S.)
Master of Science in Electrical Engineering (M.S.E.E.)
Master of Science in Engineering Management (M.S.E.M.)
Master of Science in Engineering Science (M.S.E.S.)
Master of Science in Environmental Engineering (M.S.E.V)
Master of Science in Health Informatics (M.S.H.I.)
**ACCREDITATION**

<table>
<thead>
<tr>
<th>Master of Science in Industrial Engineering</th>
<th>M.S.I.E.</th>
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<tbody>
<tr>
<td>Master of Science in Marketing</td>
<td>M.S.M.</td>
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<tr>
<td>Master of Science in Materials Science and Engineering</td>
<td>M.S.M.S.E.</td>
</tr>
<tr>
<td>Master of Science in Mechanical Engineering</td>
<td>M.S.M.E.</td>
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<tr>
<td>Master of Science in Medical Sciences</td>
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<tr>
<td>Master of Science in Public Health</td>
<td>M.S.P.H.</td>
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<tr>
<td>Master of Science in Real Estate</td>
<td>M.S.R.E.</td>
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<td>Master of Social Work</td>
<td>M.S.W.</td>
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<tr>
<td>Master of Urban and Community Design</td>
<td>M.U.C.D.</td>
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<tr>
<td>Master of Urban and Regional Planning</td>
<td>M.U.R.P.</td>
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</tbody>
</table>

**Advanced Graduate Degrees**
- Education Specialist Ed.S.
- Doctor of Audiology Au.D.
- Doctor of Education Ed.D.
- Doctor of Philosophy Ph.D.
- Doctor of Public Health Dr.P.H.
- Doctor of Nursing Practice D.N.P.

**Professional Degrees**
- Doctor of Medicine M.D.
- Doctor of Pharmacy Pharm.D.
- Doctor of Physical Therapy D.P.T.

The University of South Florida and all colleges, departments and programs therein establish certain academic requirements that must be met before a degree is granted. These requirements concern such things as curricula and courses, majors and minors, and academic residence. Advisors, directors, department chairs, and deans are available to help the student understand and arrange to meet these requirements, but the student is responsible for fulfilling them. At the end of a student’s course of study, if requirements for graduation have not been satisfied, the degree will not be granted. For this reason, it is important for all students to acquaint themselves with all regulations and to remain currently informed throughout their college careers and to be responsible for completing requirements. Courses, programs, and requirements described in the catalog may be suspended, deleted, restricted, supplemented, or changed in any other manner at any time at the sole discretion of the University and the USF Board of Trustees.
Vision, Mission, Goals, and Values

Vision
The University of South Florida is a global research university dedicated to student success and positioned for membership in the Association of American Universities (AAU).

As Florida’s leading metropolitan research university, USF is dedicated to:

- Student access, learning, and success through a vibrant, interdisciplinary, and learner-centered research environment incorporating a global curriculum
- Research and scientific discovery to strengthen the economy, promote civic culture and the arts, and design and build sustainable communities through the generation, dissemination, and translation of new knowledge across all academic and health-related disciplines
- Partnerships to build significant locally- and globally-integrated university-community collaborations through sound scholarly and artistic activities and technological innovation
- A sustainable economic base to support USF’s continued academic advancement

Mission
The University of South Florida’s mission is to deliver competitive undergraduate, graduate, and professional programs, to generate knowledge, foster intellectual development, and ensure student success in a global environment.

Values
The University of South Florida values:

- High-quality education and excellence in teaching and learning
- High-impact scholarship, research, and creative activities
- Diversity of students, faculty, and staff
- Affordable and accessible education
- Global research, community engagement, and public service
- Social, economic, and environmental sustainability
- Focus and discipline in aligning the budget with institutional priorities
- A campus life with broad academic, cultural, and athletic opportunities
- Success and achievement of its students, faculty, staff, and alumni
- Shared governance within all components of the institution
- Collegiality, academic freedom, and professional responsibility
- Entrepreneurial spirit, partnerships, and innovation
- Efficiency and transparent accountability
- First-class physical infrastructure and a safe campus environment

Commitment to Honor & Living the Commitment
As an ethical community, the University of South Florida is dedicated to the ideals of excellence in student development, academic learning, scholarship and research. By joining this community, each member is expected to accept and live these commitments.

I resolve to maintain the honor and integrity of the university community in pursuit of student development, academic learning, scholarship and research.

Living the Commitment: A commitment to this resolution upholds our core values of honesty, diligence and trust within our academic and professional lives. This means that authentic and sincere efforts motivate our work while we strive for genuine, trustworthy interactions.

I resolve to respect the dignity and intrinsic value of all persons.

Living the Commitment: A commitment to this resolution requires appreciation for another’s personal right to explore freely, to express oneself responsibly, and to participate actively in building an environment of mutual respect and inclusion for each individual. This means that we will support equal rights and opportunities for all people, while exhibiting behaviors which are compassionate and considerate to others.

I resolve to contribute to the progress and greater good of the community.

Living the Commitment: A commitment to this resolution motivates us to serve the University with words and
actions that generate a positive impact on the future of the whole community. This means that active and
creative thought and contributions within a collegial environment will expand both the nature and scope of
knowledge and the quality of community life.

I resolve to strive for excellence and discovery for myself, others, and the University.

Living the Commitment: A commitment to this resolution confirms the shared values that make the University
a strong community. We hold high expectations for our own academic and professional work. Concurrently,
we endeavor to support the success of others as we all seek to contribute to the mission of the University.

About the USF System

The University of South Florida System (USF) is a young and emerging system that currently includes three
institutions: USF Tampa; USF St. Petersburg; and USF Sarasota-Manatee. The institutions are separately accredited
by the Commission on Colleges of the Southern Association of Colleges and Schools. All institutions have distinct
missions and their own detailed strategic plans. USF includes the main campus in Tampa, its College of Marine Science
in St. Petersburg, and USF Health, including the Colleges of Medicine, Nursing, Public Health and Pharmacy. Serving
more than 47,000 students, the USF System has an annual budget of $1.5 billion and an annual economic impact of
$3.7 billion.

About USF

Founded in 1956, the University of South Florida is a high-impact, global research university located in beautiful
Tampa Bay on Florida's spectacular west coast. It is one of the largest public universities in the nation, and among the
top 50 universities, public or private, for federal research expenditures. The University is one of only four Florida public universities classified by the Carnegie Foundation for the Advancement of Teaching in the top tier of research universities, a distinction attained by only 2.3 percent of all universities.

With more than 230 degree programs at the undergraduate, graduate, specialty and doctoral levels, including the
doctor of medicine, there's something for everyone at USF. The University offers a dynamic learning environment that
inspires innovation, creativity and collaboration and is focused on student success. More than 2,000 distinguished scholars, researchers and expert teachers, nearly all holding Ph.D.s or the highest degrees in their fields, make up the USF faculty – including the 2012 U.S. Professor of the Year.

USF is a member of the American Athletics Conference, with 17 men's and women's varsity teams competing at the
NCAA-level. New facilities for practice and competition, along with a completely renovated USF Sun Dome, put the
university's athletic facilities on par with virtually every top program in the country.

Ranked fourth among the nation's most veteran-friendly schools, USF offers a number of unique programs and
resources for student veterans, including a Veterans Achievement Center and on-site Department of Veteran’s Services
representative.

USF Facilities

Since its inception, USF has endeavored to provide facilities that assist students and scholars in achieving their
educational and professional goals.

USF, which includes USF Health, is situated on more than 1,500 acres in northeast Tampa, one of the fastest
growing areas in Tampa Bay. USF features more than 250 buildings valued at over $1.5 billion, including modern
science and engineering labs; a communications building with a full range of broadcast facilities; foreign language
listening labs; fine art studios and display spaces; education teaching labs; open-use computing labs with free Internet
access in addition to being a Wi-Fi campus; a public television station; and a listener-supported radio station.

USF continues to be in a construction mode to provide facilities with the projects currently being developed totaling
more than $250 million. Construction projects in progress include the Patel Center for Global Solutions, a new learning
facility for the College of The Arts, the Interdisciplinary Science Teaching and Research Facility, the USF Student
Wellness and Nutrition Center, College of Medicine improvements, and USF Athletic facilities for basketball, baseball,
softball, football, soccer and recreation.

In addition, projects to enhance the campus pedestrian walkways, bikeways, and lighting have been implemented
for use and enjoyment. Future planned projects include an expansion and renovation of the Sundome arena and
convention center and continued campus facilities enhancements.

The campus also offers a wide variety of recreational facilities, including a multi-million dollar recreation center
featuring a 6,500-square-foot weight room, an indoor pool, racquetball courts and various fitness studios; two outdoor
swimming pools; 22 lighted tennis courts; an 18-hole golf course and driving range; a running trail; three softball fields;
four outdoor basketball and volleyball courts; 10 lighted multi-purpose fields; a riverfront park/recreation activities area;
and a new recreation field facility adjacent to the Juniper/Poplar Residence Hall.

USF offers a wide range of living options for students who wish to live on campus, including traditional-style, suite-
style and apartment-style resident halls. Greek housing is also available for members of USF’s sororities and fraternities.

Diversity and Equal Opportunity Policy

It is the goal of the University to create and maintain a work and study environment free of discrimination and harassment. Discrimination on the basis of race, color, sex, marital status, religion, national origin, disability or age is prohibited by University policies, federal and state laws. The USF system protects its faculty, staff, and students from discrimination and harassment based on sexual orientation. Any person who believes that he or she has been subjected to discrimination may file a complaint with the Office of Diversity and Equal Opportunity, ADM 172. The telephone number is 974-4373. It shall be prohibited for any employee of USF to discriminate or take retaliatory action against any individual who, in good faith, has opposed an alleged unlawful practice or has made a charge, testified, assisted, or participated in any manner in an investigation, proceeding, or hearing under the provisions of applicable law or the university equal opportunity policies.

Center for Victim Advocacy & Violence Prevention

The Center for Victim Advocacy & Violence Prevention (part of the Division of Student Affairs) provides free and confidential services to students, faculty and staff (both men and women), who have experienced crime, violence, or abuse in incidents occurring on or off campus, recently or in the past. Services are provided by professional Victim Services Practitioners and may include: crisis intervention, emotional support, personal and systems advocacy, court accompaniment, victim helpline, safety planning, and assistance filing for injunctions (protective orders) and crime victim’s compensation claims. We also provide prevention and education presentations, programs and events. Appointments are available in our office or other safe locations on campus. Walk-ins are welcomed, Monday – Friday, 8:00 a.m. to 5:00 p.m. After hours, weekends and holidays, an advocate is available for victims of violent crimes by contacting the University Police.

Important Contact Information

Crime Victim Helpline: (813) 974-5757; Office: (813) 974-5756; SVC 1138; www.sa.usf.edu/advocacy/

Guide to Resources for Students with Disabilities

In accordance with Section 504 of the Rehabilitation Act, The Americans with Disabilities Act and The ADA Amendments Act, the University of South Florida provides reasonable classroom accommodations for otherwise qualified students who have documented disabilities. Students seeking accommodations must register with the Services for Students with Disabilities Office. See http://www.sds.usf.edu for a list of common accommodations and more information on the accommodations process.

Admissions: Students with disabilities apply under the same guidelines as all students through the Offices of Undergraduate or Graduate Admissions.

Course Substitution: Students with disabilities requesting substitution of coursework for General Education, or Foreign language requirements should contact Students with Disabilities Services. Students with declared majors requesting substitution of departmental graduation requirements will need to contact the chair of their department. In either case, students will be requested to submit documentation to SDS to support their request for an exception.

Parking: Students with state parking privileges need only supply their state card as documentation for eligibility to Parking and Transportation Services. Students without state privileges need medical documentation to be considered for on-campus parking. Contact: http://www.usf.edu/parking_services.

Diversity and Equal Opportunity: Students with disabilities are encouraged to participate fully in all University events, programs, and other campus activities. Information on whom to contact to request accommodation or assistance should be listed on program information and advertisements. If unable to secure the requested assistance or if additional help with accessibility is needed, contact the ADA Coordinator in Diversity and Equal Opportunity (DEO) at http://usfweb2.usf.edu/EOA/

USF - Reasonable Academic Accommodations and Services for Students

Ms. Deborah McCarthy, Director, 4202 E. Fowler Avenue, SVC 1133, Tampa, FL 33620-6500 (813) 974-4309 (Voice), Email Contact: dmccarthy@usf.edu

Web Address: http://www.sds.usf.edu
ADMISSIONS AND RELATED MATTERS

ADMISSIONS AND RELATED MATTERS

UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG

Location/Phone: SVC 1036; (813) 974-3350
Website: http://www.usf.edu/admission/apply.aspx

The Office of Admissions assists prospective students with learning about the opportunities available to them at the University. The office is responsible for processing applications for admission for undergraduate and former students returning. Admissions also reviews transfer credit completed at other regionally accredited institutions for determination of transferability. Admission services are available at all USF System institutions.

Admission to the University of South Florida requires evidence of ability to successfully complete academic work, the capacity to think creatively, and strong motivation. The minimum admission requirements are designed to help identify applicants whose academic background indicates potential for success at USF; however, satisfaction of minimum admission requirements does not guarantee acceptance. The admission of new students at all levels is on a selective basis within curricular, space, and fiscal limitations. The selection process may include such factors as grades, test scores, pattern of courses completed, class rank, educational objectives, past conduct, school recommendations, personal recommendations, and portfolios. Preference for admission in any term will be given to those applicants whose credentials indicate the greatest promise of academic success.

The University encourages applications for admission from all qualified applicants and does not discriminate based on race, color, marital status, sex, religion, national origin, disability, age, sexual orientation, veteran status, genetic information, and gender identity and expression, or as otherwise prohibited by state or federal law, in the admission process.

The University supports equal educational opportunity for disadvantaged students. Written requests for waiver of the $30.00 application fee are considered by the Director of Admissions if payment of this fee creates a documented severe financial hardship and serves as a deterrent to application.

Students are admitted to USF in accordance with the mission and goals of the University and within enrollment limitations established by the Department of Education, State University System of Florida and the Florida Legislature.

Applying for Admission

Obtaining an Application

The University of South Florida strongly encourages all applicants to apply online. The online undergraduate admissions application may be found on the Office of Undergraduate Admissions web page at http://usfweb2.usf.edu/admissions/apply.html.

When to Apply

Applications for admission are accepted as early as twelve months before the requested entry term. Applications for admission and the non-refundable application fee should be submitted by the deadline date (see academic calendar) for the requested entry term or by the application deadline for the requested degree program (see specific programs in this catalog), whichever is earlier.

Who Should Apply

An application for admission must be submitted by all students who have not been admitted to and enrolled in a USF degree program within the last three terms. Former or continuing USF degree-seeking students must file another application for admission when applying for a second degree program, another level of study or readmission (see Readmission). Anyone who has previously been admitted and enrolled as a degree-seeking student and has paid an application fee is required to pay the $30 application fee.

The Director of Undergraduate Admissions may waive payment of the application fee for disadvantaged applicants if the fee serves as a deterrent to application.

Changing Requested Term of Entry

Applicants may update their application for admission for up to one year from the originally requested term of admission. All requests for changes of entry term must specify any academic work attempted that was not reflected on the original application and must be received by the appropriate published application deadline for the new term of entry or degree program specified whichever is earlier. Additionally, any issues related to criminal or academic misconduct that were not reflected on the initial application must be reported in writing to the Office of Undergraduate Admissions. A new application and fee must be submitted when applicants wish to be considered for admission for a term that begins more than twelve months after the originally requested entry term.

An applicant who requests a new entry term must meet the admissions requirements in effect for the new term requested. Entry for some programs is limited to specified terms.
Transcripts and Other Admission Documents
All official transcripts, test scores, and any other required credentials must be received directly from the issuing agencies. It is the applicant’s responsibility to initiate the request for credentials to the issuing agencies and to assure their receipt by the respective Office of Undergraduate Admissions at USF Tampa, USF St. Petersburg, or USF Sarasota-Manatee, depending on which of those USF System institutions the student is interested in attending. (See “Minimum Requirements for Admission” below for information concerning required documentation).

All credentials and documents submitted become the property of USF. The originals or copies of the originals will not be returned to the applicant or forwarded to another institution, agency, or person.

Provisional Admission
An applicant admitted on a provisional basis must submit the requested missing credentials, such as official final transcripts or test scores, which substantiate eligibility for admission before a second registration will be permitted.

Applicants who do not meet standard Department of Education minimum admission requirements may be admitted to the University on academic probation. Students admitted on probationary status must accumulate 30 semester credits and maintain a minimum cumulative 2.0 grade point average (GPA) each term enrolled with no single term GPA below a 1.0 before the probationary status is removed. (A term GPA below 2.0 in the first term of enrollment results in permanent academic dismissal.) Advising is mandatory prior to registration. Failure to meet these conditions results in permanent academic dismissal from the University.

USF System Admission Criteria vs. Differential Admission Criteria
Undergraduate students are admitted to USF based on system admission criteria. Differential admission criteria, which are higher than the system admission criteria, are required for admission to USF in Tampa. Students admitted to USF may register for classes offered by any USF System institution. However, students should be aware of specific general education and residency requirements established by each USF institution before registering for a course offered by another USF institution. The student’s academic advisor can provide guidance regarding this matters. Students admitted to USF St. Petersburg or Sarasota-Manatee institutions who do not meet the differential criteria are restricted from changing their home campus or registering for courses offered by USF Tampa.

Students may apply to have the registration restriction removed, which will allow the students to take courses offered by any USF institution or regional campus, when they have a cumulative postsecondary GPA that meets the current transfer admission criteria for USF’s Tampa campus.

A freshman who does not meet the differential admission criteria must earn at least 30 credit hours (at least 12 of which must be earned at USF and not through dual enrollment, AP, AICE or IB exam credit) and have a 2.5 cumulative GPA, and a transfer student who does not meet the differential admission criteria must have earned at least 60 credit hours with a 2.5 cumulative GPA and a 67 percent course completion ratio to have access to courses offered at all USF institutions or campuses. Any exceptions must be requested on a course-by-course basis and will be approved only when the course is required for on-time progression toward degree for the student. Requests for exceptions must be initiated through the academic advisor at the home institution or campus and must be approved by the Dean of the appropriate college at USF.

Admission Denials
Receipt of final official credentials that fail to substantiate eligibility will result in rescission of admission, reclassification to non-degree status, and denial of continued enrollment in subsequent terms.

An undergraduate applicant who is denied admission may be eligible to appeal and will be advised of applicable appeal procedures by the Office of Undergraduate Admissions.

An application for admission or a residency affidavit submitted by or on behalf of a student that contains false, fraudulent, or incomplete statements may result in denial of admission, further registration and/or degrees awarded.

The University may refuse admission to a student whose record shows previous misconduct not in the best interest of citizens of the University community.

Required Orientation
Prior to beginning classes, all new undergraduate students (freshman and transfer) are required to participate in Orientation at the USF institution to which they are admitted. Orientation sessions are designed to assist new students with their transition into the University. During the University Orientation students are made aware of the following: college overviews and requirements for their degree program; general University policies and services; and student activities and campus life. In addition, academic advising and registration for classes are all part of the orientation process.

All new students will receive Orientation information after admission.
Required Proof of Immunity
See the Immunization Policy located in the Student Affairs section of the catalog.

Limited Access Programs
Undergraduates seeking entrance to limited access degree programs must meet special program requirements in addition to requirements for admission to the University. While many limited access programs admit students only at the junior level, some programs admit students for the freshman or sophomore years. The admission criteria and procedures for limited access programs at USF furnish equal access to A.A. degree holders from Florida public colleges, transfers from other SUS institutions and USF students of equivalent status. Transfer applicants with 60 or more transferable semester hours who are seeking admission to limited access programs must meet the grade point average requirement specified by the program to be eligible for admission to USF. Transfer applicants with 30 to 59 transferable semester hours who are seeking admission to certain limited access programs such as Nursing may be required to meet a higher transfer grade point average requirement that would allow eventual admission to those particular degree programs.

USF, with approval of the Board of Governors and the Articulation Coordinating Committee, has established the following undergraduate programs as limited access: Mass Communications in the College of Arts and Sciences; Social Work in the College of Behavioral and Community Sciences; all degree programs in the College of Business; Exercise Science in the College of Education; all degree programs in the College of Nursing; and the B.F.A. and B.A. in Dance in the College of the Arts. The admissions requirements for these degree programs may be found with other program information in appropriate sections of this catalog.

Minimum Requirements for Admission
Prior to registration, each student accepted for admission must submit a signed medical history form, including documentation of appropriate immunization, as required by USF Policy 33-002.

Freshman Applicants
To be considered for admission, freshman applicants must submit a USF Application for Admission, a non-refundable application fee, an official high school transcript, official GED scores if applicable, SAT or ACT score, with writing, and a IELTS or TOEFL score if applicable.

Although USF has minimum freshman admission requirements, meeting these minimum standards does not guarantee admission. Applicants selected for admission usually exceed the eligibility requirements; however, USF also considers applicants who do not fully meet minimum requirements but who have important attributes, special talents or unique circumstances that may contribute to a representative and diverse student body. These freshman applicants are considered for admission by a faculty committee on the basis of other appropriate evidence of ability to do successful academic work at USF.

For purposes of admission, USF recalculates a high school grade point average (GPA) based on grades earned in all college preparatory academic courses. In recalculating a GPA, USF assigns additional weights to grades earned in honors, Dual Enrollment, Advanced Placement courses, International Baccalaureate courses, and Advanced International Certificate of Education courses (provided the grade earned is C or above).

The University normally requires a diploma from a Florida public or a regionally accredited high school or the state-approved General Education Development (GED) diploma. Students admitted under the Early Admission Program are exempted from this requirement. Students who are participating in an approved home schooling program are expected to provide acceptable copies of annual evaluations for the equivalent of grades 9 through 12. A portfolio or additional documentation may be requested if deemed necessary to complete an appropriate evaluation for admission. As well as, appropriate alternative evidence of academic achievement, ability, motivation, and responsibility (example: dual enrollment, AP credit). Other minimum requirements are outlined below.

1. Freshman applicants must submit an official test score from the SAT or the ACT. Applicants graduating from high school after January 1, 2006 will be required to submit an SAT or ACT score that includes the Writing component. Students with test scores from older versions of the admissions test(s) may be required to retest for admission purposes. Receipt of an SAT without Writing or ACT without Essay will not fulfill the test score requirement.

2. For freshman applicants earning a high school diploma, the following college preparatory academic units (year-long courses or equivalents) normally offered in grades nine through twelve are required:
   - four units of English (three of the four must incorporate substantial writing requirements);
   - four units of mathematics (Algebra I and above);
   - three units of natural sciences (two of the three must incorporate substantial laboratory requirements);
   - three units of social sciences (history, civics, political science, economics, sociology, psychology and geography);
3. Freshman applicants who have a 3.50 (B+/A-) grade point average as recalculated by USF using all attempted academic courses are considered generally competitive as long as the course selection is rigorous. The University sets admission requirements that may be found on the Undergraduate Admissions web homepage. Please refer to [http://usfweb2.usf.edu/admissions/freshman-application-deadlines.html](http://usfweb2.usf.edu/admissions/freshman-application-deadlines.html) for the current admission requirements.

4. Applicants submitting a GED diploma must have an overall score of at least 2500 for all five tests and a minimum standard score of at least 500 on each of the five tests. GED holders must also submit an SAT or ACT score that includes the Writing component.

5. In the absence of the above, the University will also consider appropriate alternative evidence of academic achievement, ability, motivation and responsibility that indicates potential for successful academic work at USF.

6. A first-time-in-college applicant whose native language is not English may be required to present a minimum score of 6.5 on the International English Language Testing service exam (IELTS), or a score of 550 (paper-based test) or 79 (Internet-based test) on the Test of English as a Foreign Language (TOEFL). The IELTS or TOEFL requirement may be waived on an individual basis when appropriate alternative evidence of English language proficiency is presented in writing (including SAT Critical Reading score of 460 or above, or an ACT English/Writing score of 18 or above and Reading Score of 19 or above).

7. First-time-in-college applicants seeking admission at the freshman level to a limited access degree program must meet additional requirements specified by the program.

8. If a student has not earned the following minimum scores on the SAT or the ACT, remedial college preparatory work generally will be required prior to the first term of enrollment at USF:
   a. SAT – Mathematics 460 Critical Reading 460 Writing 440
   or
   b. ACT – English/Writing 18 Reading 19 Mathematics 19

9. A limited number of students requiring this remedial coursework may be offered admission only for summer or spring terms.

**Provisional Offers of Admission**

Some applicants may be offered admission to the University of South Florida with the provision that they enroll in an alternate term and/or program that differs from that requested on the application for admission. For example, a freshman applicant may be offered admission to the summer or spring term due to enrollment limits and/or admission criteria. Further, some applicants who do not meet differential admission criteria at USF may be referred for admission consideration to USF St. Petersburg or USF Sarasota-Manatee. Once admitted to either USF system institution provisions will be placed on the students admission restricting students taking courses at USF St. Petersburg or USF Sarasota-Manatee until he or she has earned 30 semester hours (12 of which must be earned at USF St. Petersburg and not through dual enrollment, AP, AICE or IB credit) with a 3.00 cumulative GPA, at which time the student can request to change the home campus. The provisions of all offers of admission will be stated clearly in materials included in the acceptance packet.

**USF Admissions Deposit**

Freshmen admitted to the University of South Florida are required to submit a $200 non-refundable admission deposit by May 1 for either summer or fall admission.

The admission deposit will be credited to the student’s account and applied toward their first semester tuition. The admission deposit will be waived for admitted freshmen who demonstrate significant financial need on a FAFSA (Free Application for Federal Student Aid) submitted by USF’s priority deadline of March 1st.

Admitted freshmen are encouraged to pay the deposit online via OASIS (USF’s Online Access Student Information System). Online payment is the University’s preferred payment method. Checks and money orders submitted to the Cashier’s Office (SVC 1039) are also acceptable forms of payment.

**Early Admission Applicants (Freshman)**

USF provides an early admission program to meet the needs of highly capable, mature high school students. Under the Early Admission program these students may enter the University as regularly enrolled, degree-seeking students prior to graduation from high school. Participation in the Early Admission program shall be limited to students who have completed a minimum of six semesters of full-time secondary enrollment, including studies undertaken in the ninth grade. In addition, Early Admission applicants should be enrolled in a strong college-preparatory curriculum while in high school. Applications for Early Admission will be reviewed by the Director of Undergraduate Admissions in conjunction with the Dean of the Honors College. Students enrolled in the Early Admission program must take courses that are creditable toward the high school diploma and the associate or baccalaureate degree.
Students wishing to be accepted as Early Admissions students at USF must:

1. have completed the equivalent of the junior year of high school, requiring one more year to complete requirements for the high school diploma;
2. have a 1300 on the Mathematics and Critical Reading sections of the SAT OR an ACT Composite score of 29, a 3.80 high school grade point average (computed by USF); and a TOEFL score, if applicable (students who do not meet all the requirements may discuss possible exceptions with the coordinator for Early Admission);
3. meet regular USF admission criteria for degree-seeking undergraduate students;
4. contact the coordinator for early admission.

Please note: If an early admission applicant is submitting SAT scores, they are required to submit scores for Mathematics, Critical Reading and Writing. The Honors College reviews only the Mathematics and Critical Reading scores due to comparison purposes. However, applicants to USF must submit Mathematics, Critical Reading and Writing scores, if submitting SAT scores. In the event that ACT scores are submitted, the applicant must submit the ACT Writing Score.

Undergraduate Transfer Applicants

Applicants with fewer than 60 transferable semester credits are considered lower-level transfers; upper-level transfers are those with 60 or more transferable semester credits (see below). Regardless of category, grade point averages (GPA) for purpose of admission will be computed based only on grades earned in courses that are acceptable for transfer credit and as calculated by USF.

Beginning with the Fall term, 2010, all lower level and upper level transfer applicants must meet a minimum successful course completion ratio as well as any additional requirements. The completion ratio is determined by the number of credit hours passed compared to the number of credit hours attempted. For the current percentage required for admission, please consult the transfer admissions web page at http://usfweb2.usf.edu/Admissions/lower-level-transfer-requirements.html

USF requires all transfers with 60+ transferable hours—including A.A. transfers from Florida colleges—to meet the GPA requirement for their intended major. Applicants for Business, Communications and Education must have a 2.50 transfer GPA; applicants for Mass Communications and Social Work must have a 2.75; applicants for Architecture must have a 3.00; and applicants for Nursing must have a 2.5 with an A.S. in Nursing or a 3.5 with 60+ hours, including an AA degree. Beginning Fall 2013 the College of Business and the Department of Computer Science and Engineering have established a new minimum overall GPA required to satisfy the admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified through USF’s course management system each fall as to the minimum entrance GPA required for the following fall semester.

Except in cases where extenuating circumstances can be documented, USF prefers not to admit transfers with fewer than 24 transferable hours, as national and institutional data suggests that students who transfer earlier are less likely to succeed academically. For those with 30 to 59 hours, USF will require a 2.50 transfer GPA, again based on data related to transfer student success in the classroom. For other transfers with 60+ hours (including Florida College System transfers without an A.A. or A.S. degree), USF St. Petersburg and USF Sarasota-Manatee will continue to consider applicants with a 2.00 transfer GPA, while USF Tampa will require a 2.50 transfer GPA. In addition, transfers to USF Tampa are expected to meet a minimum successful course completion ratio of 67% (the number of credit hours passed compared to the number of credit hours attempted). USF St, Petersburg and USF Sarasota-Manatee may now set their own transfer admission criteria. Please consult the respective websites of the various USF System institutions for specific requirements.

All System Admissions Offices will continue to assist transfer students in their efforts to identify the best academic fit within the USF System.

Meeting minimum requirements, however, does not guarantee admission to USF. In addition, limited access programs may require a higher GPA or completion of specific prerequisites. Transfer admission criteria are subject to change without notice based on space availability.

USF accepts transfer credit from institutions that are regionally accredited at the time the credits are earned. Students who transfer from one public institution to another in the State University and Florida College Systems within two (2) years of their matriculation and seek admittance to the upper division come under the common prerequisite requirements of their entering catalog. For example, a student who enters a Florida College System college in Fall 1999 and seeks admittance to an upper division major for Fall 2001 must meet the major common prerequisites listed in the 1999-2000 Common Prerequisite Manual. However, if the student does not seek admittance within two years of his or her matriculation, he or she will come under the manual dated two years prior to transfer. For example, if the student enters in Fall 1999, but does not transfer until Fall 2005, he or she must meet the requirements of the 2003-2004 Manual.

Applicants with fewer than 60 transferable semester credits are considered lower-level transfers; upper-level transfers are those with 60 or more transferable semester credits (see below). Regardless of category, grade point averages (GPA) for purpose of admission will be computed based only on grades earned in courses that are acceptable
for transfer credit and as calculated by USF.

USF accepts transfer credits, without a course by course evaluation of the prior coursework, only from institutions that are accredited by one of the regional accrediting agencies/commissions recognized by USF at the time the credits are earned (See Evaluation of Transfer Credit). Courses approved for transfer by the Statewide Course Numbering System (SCNS) from non-regionally accredited institutions will be considered for transfer credit the same as credits from regionally accredited institutions. All credits earned during the period of time a regionally accredited institution was in a “candidacy” status for accreditation are considered for transfer credit. Credits earned at an institution that is currently in “candidacy” status will not be considered for transfer credit until such time as the awarding institution receives full regional accreditation. For an applicant applying from a non-regionally accredited school, the admissions decision will be based on prior work at a regionally accredited institution or on the transferable work completed at a non-regionally accredited institution as approved by SCNS. If all post-secondary work is from a non-regionally accredited school, not including SCNS approved coursework, the evaluation will be based on the high school record and test scores and the applicant will be regarded as a freshman for purposes of admission.

USF reserves the right to evaluate specific courses and deny transfer credit. USF does not award transfer credit that is determined to be occupational or vocational in nature except that work specifically approved as part of the Bachelor of Science in Applied Science program or approved by the academic department of the student’s major.

Lower-Level Transfer Applicants
(24 to 59 transferable semester credits)

To be considered for admission, transfer applicants with fewer than 60 transferable semester credits must submit a USF Application for Admission, a non-refundable application fee, an official transcript from each previous college attended, an official high school transcript, official GED scores if applicable, official SAT or ACT scores, and a IELTS or TOEFL score if applicable.

Lower-level transfer applicants who will enter USF with 24-59 transferable semester credits must minimally meet the following requirements to be considered for admission in good standing; however, satisfying these minimum requirements does not guarantee admission.

1. Have an overall 2.5 average GPA, as calculated by USF;
2. Be in good standing and eligible to return to the last regionally accredited institution attended.
3. Satisfy fully all freshman admissions standards as described in the previous section entitled “Freshman Applicants.” (Meeting freshman admission standards may be a critical requirement for undergraduate applicants with fewer than 60 transferable credits);
4. Complete (with passing grades) two years of the same foreign language in high school or 8 to 10 semester hours of the same foreign language at the post-secondary level.
5. If applicable, present a minimum score of 550 (paper-based test), or 79 (Internet-based test) on the Test of English as a Foreign Language (TOEFL) or 6.5 on the IELTS if the applicant’s native language is not English. The TOEFL or IELTS requirement may be waived on an individual basis when appropriate alternative evidence of English language proficiency is presented in writing (including an SAT Critical Reading Score of 460 or better and SAT Writing score of 440 or better, or an ACT English/Writing score of 18 or better and Reading score of 19 or better).
6. Transfer applicants whose transcripts demonstrate an unsatisfactory course completion ratio will be denied admission to USF Tampa. For the current percentage required for admission, please consult the transfer admissions web page at http://usfweb2.usf.edu/admissions/information-for-transfers.html.

USF also considers applicants who do not fully meet the minimum requirements as stated in #1 and #2 above but who have important attributes, special talents, or unique circumstances that may contribute to a representative and diverse student body. These undergraduate transfer applicants are considered for admission by a faculty committee on the basis of other appropriate evidence of promise for academic success. These applicants should also submit appropriate alternative evidence of academic achievement, ability, motivation, and responsibility that supports potential for academic success at USF.

Upper-Level Transfer Applicants
(60 or more transferable semester credits)

To be considered for admission, transfer applicants with 60 or more transferable semester credits must submit a USF application for admission, a non-refundable application fee, an official transcript from each previous college attended, and a TOEFL or IELTS score if applicable. Final transcripts with any degree awarded, or a minimum of 60 semester hours of transferable credit earned prior to initial enrollment at USF, must be submitted to determine final admissions eligibility.

Any transfer student with 60 or more semester hours who designates a desire for admission to a limited access undergraduate program must meet the overall admission GPA criteria of that program in order to be admitted to the University.
### Evaluation of Transfer Credit

1. The receipt and evaluation of transfer credit is the responsibility of the Office of Undergraduate Admissions. The Office of Undergraduate Admissions will evaluate the acceptability of total credits transferable to the University. The college of the student’s major will assign equivalent courses in determining which courses are applicable toward a specific degree at the University. In some instances, exact course equivalents will also be determined by other colleges that offer the same or similar courses as part of their programs of study. Transfer students should be prepared with personal copies of their transcripts of all past course work to discuss advisement and placement with the appropriate academic advisor and should contact the college of their major soon after registration so that an official evaluation may be completed. Transfer students from non-Florida institutions should also be prepared to submit course syllabi to assist USF faculty in the official evaluation.

2. USF will readily or automatically accept credits only from those institutions accredited by one of the regional accrediting agencies/commisions* at the time the credits are earned. (See * below for agencies recognized by USF.) Credits earned at an institution that is currently in “candidacy” status will not be considered for transfer credit until such time as the awarding institution receives full accreditation. Courses approved for transfer by the Statewide Course Numbering System (SCNS) from non-regionally accredited institutions will be considered for transfer credit the same as credits from regionally accredited institutions.

3. Admitted students who wish to transfer courses from colleges or universities that are accredited by organizations and associations other than regional accrediting associations may request a review of those courses by contacting their academic advisors to initiate the process. Students will be asked to submit detailed information about the content and standards for each course to be reviewed, including, but not limited to a detailed syllabus that contains the course description, prerequisites and co-requisites, major learning outcomes, textbooks, and the academic qualifications of the instructor. These materials will be submitted to...

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<th>Information</th>
<th>Requirements</th>
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<td>Undergraduate transfer students who have not earned the A.A. degree from a Florida public institution (State University System or Florida College System) or who have attended another college after receipt of the A.A. must minimally meet the following requirements to be considered for admission; however, satisfying these minimum requirements does not guarantee admission:</td>
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<td><strong>1.</strong> Be in good standing and eligible to return to the last regionally accredited institution attended as a degree-seeking student or a non-regionally accredited institution participating in the SCNS with SCNS approved transferable credits.</td>
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<td><strong>2.</strong> Have an overall “B-” average as calculated by USF (transfer GPA of 2.5 on a 4.0 scale) in all college-level courses acceptable for transfer credit to USF Tampa (in calculation of the GPA, incomplete grades are computed as failures and course “repeats” are not forgiven when the courses are repeated at different institutions.); USF St. Peters burg and USF Sarasota-Manatee will consider admission with a 2.0 transfer GPA in non-limited access majors.</td>
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<td><strong>3.</strong> Complete (with passing grades) two years of the same foreign language in high school or 8 to 10 semester hours of the same foreign language at a previous college or university. Students who entered a Florida public college prior to August 1, 1989 and maintain continuous enrollment until the time of their USF entry as degree-seeking students may be admitted without the required foreign language study;</td>
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<td><strong>4.</strong> Meet the minimum grade point average required by the program if entering a limited access program and transferring 60 or more semester hours.</td>
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<td><strong>5.</strong> If applicable, present a minimum score of 550 (paper based) or 79 (Internet-based test) on the Test of English as a Foreign Language (TOEFL), or 6.5 on the IELTS. The TOEFL requirement may be waived on an individual basis when appropriate alternative evidence of English language proficiency is presented in writing.</td>
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<td><strong>6.</strong> Transfer applicants whose transcripts demonstrate an unsatisfactory course completion ratio (including applicants with an Associate in Arts degree) will be denied admission to USF Tampa. For the current percentage required for admission, please consult the transfer admissions web page at <a href="http://usfweb2.usf.edu/admissions/information-for-transfers.html">http://usfweb2.usf.edu/admissions/information-for-transfers.html</a>.</td>
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Upper-level transfer applicants to a limited access major in Nursing, Business, Social Work, Education, Dance or Mass Communication must meet program requirements prior to admission to the University. USF also considers applicants who do not fully meet the minimum requirements as stated in #1 and #2 above but who have important attributes, special talents or unique circumstances that may contribute to a representative and diverse student body. These undergraduate transfer applicants are considered for admission by a faculty committee on the basis of other appropriate evidence of promise for academic success. These applicants should also submit appropriate alternative evidence of academic achievement, ability, motivation and responsibility that indicates a potential for academic success at USF.
the appropriate department for review by the faculty and the process make take some time, during which no credit will be awarded until the department review is completed. Only those courses that appear to match courses currently offered by the university will be reviewed for transfer.

4. USF reserves the right to deny credit for specific courses. USF does not award transfer credit from institutions that it determines to be occupational or vocational in nature except for work that is specifically approved as part of the Bachelor of Science in Applied Science program or approved by the academic department of the student’s major.

5. Associate of Arts (A.A.) degree holders from Florida public accredited institutions will be considered as having met USF general distribution requirements and are automatically awarded 60 semester hours of credit. A course-by-course transfer credit evaluation will be done for all out-of-state and private in-state A.A. degree holders.

6. All courses from a Florida College System Institution/University bearing the same State Common Course prefix and last three numbers as a USF course are automatically transferred and transfer students may not be required to repeat these courses, unless a college age-of-record policy is involved. That same automatic transferability of credits applies to courses completed at non-regionally accredited institutions that have been specifically approved by the SCNS. Excluded are graduate courses, studio courses in art, internships, practicums, and performing arts courses such as dance, theater performance, voice, and instrumental music.

7. All undergraduate degree programs at USF require a minimum of 48 hours of upper-level work that would have been completed at a four-year college or university. This policy does not affect approved articulated programs based on the A.S. degree. For information regarding specific articulated A.S. degree programs, consult the Office of Undergraduate Studies, B.S.A.S. Program.

8. Credit will not be awarded for GED tests.

9. Military service school courses will be evaluated with reference to the recommendation of the American Council of Education when official credentials have been presented. Such recommendation, however, is not binding upon the University.

10. For ROTC and military science courses taken after Fall Quarter 1975, the maximum credit will vary with each college. A student must confer with his/her college advisor to determine the acceptability for his/her major. ROTC and military science courses taken prior to Fall 1975 are not acceptable for transfer credit.

11. A maximum of 45 semester hours of College Level Examination Program (subject and general examinations) credits can be accepted for transfer credit.

12. A maximum of 30 semester hours of extension, correspondence, and military service education credits can be applied toward a degree.

13. Grades earned in transferred courses are not computed in the student’s USF GPA except for the purposes of admission to limited access programs, the awarding of honors at graduation, and class ranking of baccalaureate students.

14. International postsecondary credentials must be evaluated by an independent evaluation service, with associated costs to be paid by the student. Certain foreign credentials can be evaluated internally and do not require an independent evaluation. The list of those countries is available on the web at http://usfweb2.usf.edu/Admissions/credential-evaluation-requirements.html.

15. A continuously-enrolled USF degree-seeking student must obtain prior written approval from the college of the student’s major in order for courses taken at other regionally-accredited institutions to be applied to the USF degree program.

*Accrediting Agencies/Commissions: New England Association of Schools and Colleges, Commission on Institutions of Higher Learning; Middle States Association of Colleges and Secondary Schools, Commission on Higher Education; North Central Association of Colleges and Schools, Northwest Association of Schools and Colleges; Southern Association of Colleges and Schools, Commission on Colleges; Western Association of Schools and Colleges, Accrediting Commission for Senior Colleges and Accrediting Commission for Junior Colleges.

International Applicants (non-resident aliens)
To be considered for admission, international (non-resident aliens) must submit a USF Application for Admission and a non-refundable application fee payable in U.S. dollars. Freshman and transfer applicants with less than two years of post-secondary education must submit official SAT (www.collegeboard.com) or ACT (www.act.org) scores and academic transcripts or exam results of all secondary work. Transfer applicants must also submit official post-secondary transcripts. Transcripts in a language other than English must be accompanied by a certified English translation.

Some post-secondary international credentials may be evaluated by the Office of Undergraduate Admissions, while others may require an official course-by-course evaluation completed by an independent credential evaluation service, with associated costs to be paid by the student. The listing of countries and/or regions that can be evaluated by USF or information about recommended and approved independent evaluators is available from the Office of Undergraduate Admissions (http://usfweb2.usf.edu/Admissions/credential-evaluation-requirements.html).
An international applicant (non-resident alien) must meet all admission requirements for the appropriate applicant category (freshman, undergraduate transfer, graduate). Other minimum requirements are as follows:

1. An International applicant must demonstrate English-language proficiency by one of the following means:
   a. Submit official IELTS (www.ielts.org) score of 6.5 or TOEFL (www.ets.org/toefl) score of 79.
   b. Submit official SAT or ACT scores with a minimum SAT Critical Reading score of 440, or an official ACT English/Writing score of 17 and an ACT Reading score of 18.
   c. Completion of English Composition I and II with a grade of C or better at an English speaking post-secondary institution.

2. International applicants must be in good standing at the last institution attended.

3. International applicants must submit the USF Financial Statement (http://global.usf.edu/isss/pro-Forms.php) substantiating availability of financial resources sufficient to cover all educational, maintenance, and personal expenses while attending USF, without financial assistance from the University.

4. International applicants seeking admission to limited access undergraduate degree programs must also meet all requirements specified by the program.

5. Each International applicant must submit a health history form, including proof of immunization, as required by USF Regulation 6.0162.

Transient Applicants
An undergraduate transient student is one who comes to the University from another regionally accredited institution and wishes to take courses at USF for one term only before returning to the parent institution. Transient students may enroll at USF as non-degree-seeking students. (See Non-Degree-Seeking Students.)

University Scholarships & Financial Aid Services
Location/Phone: SVC 1102, (813) 974-4700

USF makes every effort to ensure that all qualified students have access to an education. All student financial aid programs are administered or coordinated through University Scholarships & Financial Aid Services (USFAS).

USFAS’s web site provides step-by-step guidance through the financial aid application process. USF’s Online Access Student Information System (OASIS Web) allows students to monitor the status of their financial aid from application to disbursement of funds.

All students wishing to receive financial aid are encouraged to start the financial aid process as early as possible each year after January 1. The first step is to complete and submit the Free Application for Federal Student Aid (FAFSA) online. For more detailed guidance and information, log onto the USFAS website (http://usfweb2.usf.edu/finaid/) or stop by University Scholarships & Financial Aid Services.

Orientation
Location/Phone: SVC 2049, (813) 974-3060
Web Address: www.usf.edu/orientation

Every new student at the University of South Florida is required attend an on-campus University Orientation on the campus in which they are admitted. Orientation provides an introduction to the University of South Florida and facilitates the smooth transition of students into the academic and social environments of the University. During the University Orientation, students are made aware of the following: college overviews and requirements for their degree program; general University policies and services; and student activities and campus life. In addition, academic advising and registration for classes are part of the orientation process. Orientation programs are available on all campuses and students should contact their home campus directly to make arrangements for their orientation session.

First Year (FY) Students
Students admitted for the summer or fall terms are required to stay overnight in a campus residence hall. Families of FY students admitted for the summer or fall will experience a separate orientation program, which runs concurrently with the student program. Orientation sessions are scheduled prior to each term in an academic year.

Honors College
Academically talented students in all majors may avail themselves of Honors opportunities at USF’s Tampa campus. The College is primarily designed for first-time-in-college students (FTICs); however, Honors also accepts continuing USF and transfer students. Honors College experiences are grounded in the liberal arts tradition and intended for students regardless of major. The primary goals of the Honors College are the development of critical thinking skills,
Opportunities for Accelerated Progress toward Undergraduate Degrees

USF provides several options by which students may accelerate their progress toward completing the baccalaureate degree. These options recognize knowledge which has been acquired prior to or during attendance at USF and provide the opportunity to earn University credit. Options which may be utilized to accelerate progress include the following:

1. Recognition of satisfactory performance on standardized tests offered through recognized examination programs. See [http://www.ugs.usf.edu/student/crbyexam/exams.cfm](http://www.ugs.usf.edu/student/crbyexam/exams.cfm) for a complete listing of exams and course equivalencies.

2. Recognition of satisfactory performance on tests offered through Advanced Placement Programs of the College Entrance Examination Board (see Advanced Placement Credit Programs).

3. Recognition of the International Baccalaureate Diploma Program. Students who earn the IB Diploma will be awarded 30 semester hours of college credit and sophomore standing. Credit for standard level exams with a score of 4 or higher may be awarded to those students who do not earn the IB diploma.

4. Dual enrollment as a non-degree-seeking student at USF or a community college prior to graduation from high school (see Dual Enrollment [Public/Private High/Home School]). Florida College System students should follow eligibility criteria for non-degree seeking students (below).

5. Early admission for high school students (see Early Admission Freshmen).

6. Courses completed through USF Distance Learning. See [http://ecampus.usf.edu/catalog.asp](http://ecampus.usf.edu/catalog.asp)

7. Courses completed through the Florida Distance Learning Consortium. See [http://www.fldlc.org](http://www.fldlc.org)

8. Courses completed through the State University System Correspondence Study program.

Credits may be earned through a combination of the above options. Students should contact their college advisors for further information concerning the application of this credit toward their degree requirements.

Internal processes (such as auditions, portfolio reviews, and placement tests) utilized in the various departments for the sole purpose of determining a student’s most appropriate area, level, or section placement in a program of study are not to be construed as examining mechanisms for the granting of credit.

Non-Degree Seeking Student

Non-degree seeking student enrollment is on a space-available basis and has been established for those individuals who, while not desirous of earning a degree, would like to enroll in all levels of university courses. Teachers needing to take courses for certification purposes, high school students (with the permission of their respective guidance counselor), individuals desirous of taking courses for self-enrichment, and senior citizens are examples of those eligible to utilize this enrollment method. Senior citizens only are absolved from paying the $30 non-refundable application processing fee.

Former USF undergraduate degree-seeking students may only enroll as non-degree seeking students if they have completed their previous degree program or earned an equivalent degree at another institution. Should the latter be the case, an official transcript (reflecting the degree) from that institution must be sent to the USF Office of the Registrar (Attention: Registration and Records Area) prior to registration.

Applicants denied undergraduate admission to USF as degree-seeking students will not be permitted to enroll as non-degree-seeking students.

Performance in courses taken in this category will not qualify an applicant for admission as a degree-seeking student. Similarly, courses taken as a non-degree-seeking student will not be utilized in determining an applicant’s grade point average for purposes of admission.

A non-degree-seeking student who has been dismissed from USF is not eligible for admission to USF as a degree-seeking student at the undergraduate level. If extenuating circumstances contributed to the academic dismissal and the student meets other admissions requirements, a request for waiver of this rule may be submitted to the Faculty
Committee on Student Admissions. This rule does not apply to a student who has earned a degree from a regionally accredited institution subsequent to academic dismissal.

Individuals enrolling as non-degree seeking students who plan to make formal degree-seeking application to the University may not apply more than 14 semester hours toward an undergraduate degree unless enrolled in a Pathways program offered through INTO USF or other approved program.

Non-degree seeking students who have not enrolled in USF within three terms of admission must file another non-degree application and pay another non-refundable application fee when applying for readmission.

Non-degree-seeking students are subject to the same academic policies as undergraduate degree-seeking students and must adhere to deadline dates published in the University Catalog. Non-degree seeking students are not eligible to receive University honors or participate in the USF/Florida College System cross-registration program. Non-degree-seeking students also are not eligible to live in University housing or receive financial aid. Non-degree seeking students are subject to the academic probation and dismissal policy listed in this catalog. Non-degree seeking students who are academically dismissed from the University may appeal to the Academic Regulations Committee (ARC) through the ARC representative for TRansitional Advising Center (TRAC) to return. Potential non-degree seeking students should also refer to the section of the catalog of the college(s) offering the course(s) of interest to them to determine whether any special college requirements exist which must be met prior to enrolling.

Early Admission (Public/Private High/Home School)

Through early admission, highly capable, mature high school students enrolled in a strong college-preparatory curriculum may enter the University as regularly enrolled, degree-seeking students prior to graduation from high school.

Students in the Early Admission program must take courses that are creditable toward the high school diploma and the associate or baccalaureate degree. Prospective applicants must:

a. have completed the equivalent of the junior year of high school, requiring one more year to complete requirements for the high school diploma;

b. typically have a 1300 on the Mathematics and Critical Reading sections of the SAT, with no less than 580 on either section; or a 29 on the ACT with no less than a score of 29 on English, 21 on the Reading, and 21 on Mathematics; and a 3.8 weighed high school grade point average (computed by USF); and a TOEFL score, if applicable;

c. meet regular USF admission criteria for degree-seeking undergraduate students;

d. have a personal interview with the Early Admissions Coordinator.

Dual Enrollment (Public/Private High/Home School)

Dual enrollment in USF classes is open to academically qualified students currently enrolled in public/private high schools and home schools who are recommended by their guidance counselor or principal. During dual enrollment students may only take courses which are creditable toward their high school diploma.

Students wishing to be accepted as Dual Enrollment students at the University of South Florida must:

1. Be at least 16 years old at the start of term, unless enrolled in a special summer program initiated by USF or a special course section involving only dual enrollment students;

2. Have proof of a minimum of 500 on SAT V (Critical Reading) and 500 on SAT Q (Mathematics); or a score of 21 on EACT English, 18 on EACT Reading and a score of 21 on EACT Mathematics; or appropriate placement test scores; and a TOEFL score, if applicable;

3. Have (a) completed the equivalent of the sophomore year, (b) students typically present a 3.5 grade point average or higher on a 4.0 scale (as calculated by USF), and (c) satisfied any course prerequisites; and

4. Provide a list of courses and the number of credits necessary to complete a high school diploma from the school counselor or principal on school stationery.

5. Need college-level courses that are not offered at the local community college.

All students interested in early admission or dual enrollment, should contact the Honors College (ALN 244, 4202 E. Fowler Avenue, Tampa, FL 33620) or visit the Honors’ College admission requirements page.

Readmission (Former Students Returning)

A former student returning (FSR) is any degree-seeking undergraduate student who has not earned his/her degree, who has not been enrolled at USF in any of the last three terms, and who wishes to re-enroll in the University. Former students returning must be readmitted to the University. In order to be considered for readmission, a former student should file a new application for admission with the Office of Undergraduate Admissions at least 20 business days prior to the start of classes for the term of requested re-entry. A new $30 application fee is required. (Former College of Education majors must contact the College of Education Advising Office for additional readmission requirements.)

The residency affidavit must be completed and residency status will be reassessed.

To be readmitted, a student must meet the following requirements:
1. Have a USF GPA of at least 2.00. Former students returning with a USF GPA below 2.00 may only return to USF under AR-I or AR-II.

2. Be in good standing and eligible to return to the last institution attended as a degree-seeking student; and

3. Have achieved a GPA of at least 2.0 as calculated by USF on a 4.0 scale on all college-level academic courses attempted at institution(s) attended since last enrolled at USF, and meet the minimum GPA for the declared major.

4. If previously enrolled at USF and academically dismissed at the end of the last term of enrollment, a student must file an ARC (Academic Regulations Committee) petition for Academic Renewal I or II in conjunction with the application for readmission.

Students who have attended one or more institutions since their last enrollment must request official transcripts of all work attempted at the other institution(s) be sent to the USF Office of Undergraduate Admissions. Acceptability of transfer credits toward completion of USF degree programs will be determined by the college of the student’s major.

Former students returning who have been readmitted are not required to participate in an orientation program. Students must meet with their academic advisor for course selection.

Transient students and non-degree-seeking students are not considered former students returning. These students who wish to enter as degree-seeking students must file an application with the Office of Undergraduate Admissions prior to the deadline listed in the Academic Calendar for the requested term of entry.

A student may not work on a second undergraduate degree if he/she has been accepted into a graduate program.

Senior Citizen Tuition Waiver Program

Florida residents who are 60 years of age or older as of registration day, and have lived in Florida for the last 12 months, may enroll on a space available basis in certain undergraduate and graduate courses without paying fees.

The Senior Citizen Tuition Waiver covers a maximum of nine credit hours per term and is applicable only if the student registers for these courses during the designated registration period. Due to the non-degree seeking status, academic credit is not awarded, examinations are not required and grades are not assigned. A parking permit, purchased from Parking Services, is required.

Senior Citizen Registration requests are processed on the first day of the second week of the semester. Students need not be present in order to register for courses; the Application and Registration worksheet may be submitted by mail or fax. Forms submitted after the registration deadline will not be processed.

Many courses require departmental approval, prerequisites, or have other restrictions which may limit registration. If you are aware of those restrictions, you may acquire the necessary permits in advance of registration. There is a Registration Worksheet form to accomplish this. Additionally, the permits may be submitted electronically in OASIS by the issuing department. Under no circumstances will notes on plain paper without department letterhead be accepted.

Students may not pre-register for courses in which they plan to use the Senior Citizen Tuition waiver. The waiver will not be processed if a Senior citizen pre-registers and then submits a Senior Citizen tuition waiver form for those courses.

It is the student’s responsibility to complete and submit the waiver form allowing sufficient time for the form to reach The Office of the Registrar by the registration deadline.

More information about the program can be found at the Office of the Registrar’s website, http://www.registrar.usf.edu/index.php. Enter the Word SENIOR in the “search box.” The Application and Registration worksheet are on the Registrar’s Office Forms page; look under the “Quick Links” section of that page.

Florida College System

High school graduates planning to start their college education at a Florida College System institution should confer with the guidance counselor and ask that their academic program be planned with the assistance of the USF Undergraduate Catalog that is available at http://www.ugs.usf.edu/catalogs.htm. This catalog, prepared by the USF Office of Undergraduate Studies, explicitly describes the undergraduate program requirements and Florida’s common prerequisites that should be followed to ensure maximum ease of transfer into the students’ upper-level programs on a par with their native USF counterparts.

Award of Credit for Military Training

BOG Regulation 6.103

Students who are or were eligible members of the United States Armed Forces may earn appropriate college credit for college-level training and education acquired in the military. College credit will be granted to students with military training or coursework that is recognized by the American Council on Education (ACE), subject to institution transfer practices and limitations on amount, level, etc. of transfer credit. Military training or coursework will be subject to the
same treatment as any other transfer credit evaluated, with utilization of the ACE Guide to the Evaluation of Education Experiences in the Armed Services for determining equivalency and alignment of military coursework with appropriate university courses. If the coursework fulfills a general education or major course or degree requirement, the credit will be granted for meeting that requirement towards graduation. Appropriate course credit may include free elective course credit toward the degree.

Credit that was previously evaluated and awarded by another college-degree granting institution and that is appropriate to the transfer student’s major will be accepted, subject to institution transfer limitations. Credit awarded for military education and training will be noted on the transcript and documentation of the credit equivalency evaluation will be maintained. Credit awarded for military education and training will not count in the excess hours fee per BOG Regulation 7.003. Priority course registration will be provided for each veteran of the United States Armed Forces who is receiving (from the) GI Bill.

Articulation Agreement

An articulation agreement, in effect since April 13, 1971 and later adopted by the Florida Legislature in statute form as Florida law, governs an effective and orderly transfer of Florida College System students into the State University System (SUS).

The agreement defines and establishes the Associate of Arts degree from a Florida public community/junior college as the basis for all articulation rights. Among these guarantees, the following are central to the transfer process:

Admission into the State University System

1. A.A. graduates will be granted admission to a university within the SUS, but not necessarily to the university or program of choice.
2. A.A. graduates will have the same opportunity to enroll in a university limited access program as the native university student.
3. Upon transferring to a state university, A.A. graduates will be awarded at least 60 credit hours towards the baccalaureate degree, exclusive of occupational courses and basic required physical education courses.
4. Credits that are part of the A.A. degree earned through articulated acceleration mechanisms, such as dual enrollment, International Baccalaureate, early admission, Advanced Placement and credit by exam, will be transferable to the state university.
5. As participants in the Statewide Course Numbering System, receiving institutions must accept all courses taken at the transfer institution if the courses at each institution have the same prefix and the same last three digits of the course number.
6. The university catalog in effect the year the A.A. degree student first enrolled at a Florida College System institution will remain in effect for the student’s entire program, provided the student maintains continuous enrollment as defined in that catalog.
7. Once a student has completed the general education core and this fact is noted on the transcript, regardless of whether or not an A.A. degree is awarded, no other state university or community college to which the student may transfer can require additional courses to the general education core.
8. A separate agreement establishes the Associate of Science (A.S.) degree for articulation into specialized programs. Included in these transfer guarantees is the right of appeal. Students may appeal to the university and to the Statewide Articulation Coordinating Committee. Students who have questions or want more information about the articulation agreement should contact the Office of Undergraduate Studies.
Initial Florida Residency Classification for Tuition Purposes

This notice summarizes the provisions of Florida School Code (SB20-E) Section 1009.21 and University Policy/Procedure concerning Florida Residency for tuition purposes.

In determining residency classification, students fall into one of two categories. They are either independent students (students not claimed on parent’s or legal guardian’s federal income tax statement or whose parents do not provide 50 percent or more of their support) or dependent students (students, regardless of age, who are eligible to be claimed as dependents by parent or legal guardian on federal income tax statement or whose parents provide 50% or more of their support).

The law basically requires that a U.S. citizen/permanent resident alien/independent student or a dependent student’s parent/legal guardian has established and maintained a LEGAL Florida residence for at least twelve (12) months before the first day of classes of the term for which Florida residency status is sought.

USF is required to obtain documentation of 12 months’ legal residence before a student is classified as a Florida resident for tuition purposes. A student is required to request Florida residency in writing and submit supporting documents no later than the fifth day of classes in the term for which classification is sought.

The following is acceptable, non-conclusive evidence of the establishment of a legal residence in Florida. Two documents must be dated/issued at least 12 months before the first day of classes of the term for which Florida residency is sought.

1. Proof of purchase of permanent home in Florida
2. Declaration of Domicile
3. Florida’s driver’s license
4. Florida voter’s registration
5. Florida vehicle registration
6. Florida vehicle title
7. Professional/occupational license issued in Florida
8. Florida incorporation or other evidence of legal residence in Florida
9. Full-time, non-temporary employment in Florida

For more information regarding residency for tuition purposes please visit: http://www.registrar.usf.edu/Residency/.

PLEASE NOTE: Rent receipts, leases, employment records, tax returns, school/college records are NOT evidence of establishing a legal Florida residence. Students who are dependent on out-of-state parents or who come to Florida for educational purposes are generally ineligible for reclassification to Florida status.

In rare cases, the law allows some students (e.g., military, public school teachers, etc.) who do not meet the basic requirements to be classified as Florida residents for tuition purposes. For more information about exceptional categories, contact the Admissions Office, the Office of the Registrar, or the Office of the General Counsel.

Fees

The levels of the Activity and Service Fee, the Health Fee, and the Athletic fee are determined on each campus by a student fee committee appointed by the President of the University and the Student Government President. The committee includes USF faculty and students with the majority of the committee being students. The fees may be reviewed on a yearly basis.

Registration fees are assessed in accordance with University Board of Trustees rules. All fees are subject to change without prior notice. The University will make every effort to advertise any such changes if they occur.

1. Admissions Application Fee - (Each application - not refundable) $30.00
2. Non-degree Application - Each application - not refundable) $30.00
3. Tuition

Schedule/Fee Statements are no longer mailed. Tuition is due by the fifth day of each term. Students may view and/or pay their current term fees online by accessing the “Tuition, Fees & Payments” option in OASIS at http://usfonline.admin.usf.edu.

The student is responsible for paying fees in full by the appropriate due date stated in the particular term’s “Schedule of Classes.” Failure to do so may result in cancellation of the student’s registration. Fees paid by mail must be postmarked by the post office, not office meter stamped, on or before the fifth day of the term. Checks are payable to USF.

To avoid a $100.00 late payment fee, all tuition fees must be paid or postmarked by the U.S. Post Office, not office metered, by the fifth day of the term. The University cannot be responsible for lost or misdirected U.S. Postal mail. A student whose registration has been cancelled may request registration reinstatement through the fourth week of class for the academic term.

Note: All students who successfully petition for reinstatement from financial cancellation due to non-payment will be assessed a $100 late registration fee along with a $100 late payment fee. Upon approval for reinstatement, all fees and other debts owed to the University must be paid in full by cash, money order, check or credit card before reinstatement
FINANCIAL INFORMATION

UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG

Current fees are posted in the Schedule of Classes and on the OASIS website.

1. **Tuition Fee Payment**
   - Students who only register for a co-op assignment must pay a minimum of one (1) hour at the level of the co-op assignment.
   - Access the “Tuition Fees and Payments” option in OASIS at http://usfonline.admin.usf.edu/.

2. **Late Registration Fee**
   - All degree seeking students who initiate (i.e., those students who have not enrolled for any courses during early or regular registration) their registration during the late registration period will be automatically assessed a $100.00 late registration fee.
   - All non-degree seeking students who have not registered for any courses by the end of the first week of classes will be automatically assessed a $100.00 late registration fee.
   - All students who successfully petition for late registration into a course or for reinstatement from financial cancellation due to non-payment will be automatically assessed a $100.00 late registration fee.

3. **Financial Aid Disbursement**
   - Upon satisfaction of eligibility criteria, financial aid will be credited to student accounts after the drop/add period is over. Monies in excess of charges will be electronically deposited to each student’s checking account via eDeposit, or checks will be mailed to student’s local address.

4. **Cancellation for Non-Payment of Fees**
   - Students not on an authorized deferred payment of fees and who have not paid their tuition fees in full by a specified day (per “Schedule of Classes”) will have their registration for that term cancelled. This means, specifically, that a student will receive no credit for any courses taken during that term.

5. **Intern Certificate of Participation**
   - Individuals who have supervised interns may register for courses during a term by presenting their Intern Certificate of Participation. The Intern Participation Certificate effective July 1, 1997 states that certificate holders are entitled to a waiver of only matriculation fees for a maximum of six (6) credit hours instruction during a single term. Certificates are valid for three years from the date of issuance.
   - Fees must be paid or postmarked by the U.S. Post Office (not office meter marked) by the fifth day of the term. The University cannot be responsible for lost or misdirected U.S. Postal mail.

6. **Employee Tuition Program**
   - The USF Employee Tuition Program authorizes full-time USF employees who are appointed to established positions, to enroll in USF credit courses, up to six credit hours per semester. For summer, terms A, B, and C are all parts of one semester. The employee must be appointed prior to the first day of class and is expected to be employed full-time past the end of the semester for which enrolled.

7. **Tuition Deferment for VA Students**
   - Students receiving VA benefits who have applied in writing no later than the date specified in the “Schedule of Classes” for the deferment in Veterans Services have until a specified date (see Schedule of Classes) to pay tuition in full.

8. **Florida Prepaid College Program**
   - Students who are eligible to receive benefits under this program are responsible for the local portion of fees. This fee must be paid or postmarked by the fifth day of the term to avoid being cancelled or charged the $100.00 late payment fee.

9. **Mailed Payments**
   - To avoid cancellation of registration or a $100.00 Late Payment Fee, all fee payments must be postmarked, by the post office not office metered, by the applicable fee payment deadline listed in the Academic Calendar.

10. **Returned Registration Checks**
    - A student’s current registration is subject to cancellation if the check presented in payment of those fees is returned to the University unpaid. Dishonored fee payment checks must be redeemed within 10 calendar days to avoid cancellation of a student’s current registration. A $100.00 Late Payment Fee and a $25.00 administrative charge will be assessed on any registration check returned unpaid to the University.

**Meal Plans**

**Meal Plan Office**
- **Location:** Marshall Student Center, Room 1502
- **Phone:** (813) 974-4499
- **Web Address:** [www.usf.edu/dining](http://www.usf.edu/dining)

USF requires all first-year, undergraduate students residing in on-campus housing to purchase a meal plan. The amount of the meal plan required is determined by the type of housing style (traditional, suite, or apartment) in which the student lives. Please see USF Dining at [www.usf.edu/dining](http://www.usf.edu/dining) for more information.
Refund of Tuition/Fees Payment Release of Tuition/Fees Liability

The following refunds, less deductions for unpaid debts to the University, are authorized. A Refund Request Form must be completed and presented to the Cashier’s Office, SVC 1039, to initiate the refund process. A two-week waiting period is observed for each refund to be sure checks have cleared.

a. 100 percent of registration fees and tuition will be refunded if notice of withdrawal from the University is approved prior to the end of drop/add period and written documentation is received from the student.

b. 25 percent of registration fees and tuition paid less building and capital improvement fees, will be refunded if notice of withdrawal from all courses from the University is approved prior to the end of the fourth week of classes (summer term is prior to the end of the third week of classes) and written documentation is received from the student.

Fee Adjustment Request After Fifth Day of the Term

One-hundred percent (100%) of tuition and fees will be refunded if, within six (6) months of the end of the semester to which the refund is applicable, a student who has withdrawn or dropped a course completes and files with the Registrar’s office a Fee Adjustment Request Form citing circumstances outside of the student’s control which are confirmed and approved by the Registrar. Circumstances to be considered within this six month period include:

1. Illness of a student of such severity or duration, as confirmed in writing by a physician, to preclude completion of the course(s),
2. Death of the student or death in the immediate family (parent, spouse, child or sibling),
3. Active military duty,
4. University error, or
5. Other documented exceptional circumstances beyond the control of the student which precluded completion of the course(s) accompanied by letter of explanation.

Special requests for an extension of the six (6) month deadline must include specific facts indicating special circumstances which (i) were beyond the control of the student (ii) clearly impaired the student’s physical or mental ability to correct their academic/financial record at the University and (iii) are supported by written explanation and verifiable documentation.

Pursuant to Public Law 102-325, the Higher Education Amendments of 1992, students attending the University for the first time who withdraw are entitled to a pro rata refund of tuition, fees, room and board.

A student who receives financial aid and subsequently changes the enrollment status which results in a refund in accordance with this section, will have the appropriate share of the refund returned to the University’s financial aid programs in accordance with the Financial Aid Policy on Refunds and Repayments.

The University of South Florida will approve a waiver of the Late Payment fee if the student is unable to make payment on time due to circumstances determined by the University to be exceptional and beyond the control of the student. A Late Payment Fee Waiver Request Form may be completed and submitted to the Cashier’s Office.

Payment of Accounts Due the University

Charges against students for loss or breakage of University equipment, books, fines and other charges are due immediately. Delinquent accounts may be considered sufficient cause for cancellation of registration. University regulations prohibit registration, or release of transcript, diploma, or grades for any student whose account with the University is delinquent. Delinquent accounts may be turned over to a collection agency and all collection costs including legal fees will be added to the student account balance. Financial aid from a succeeding academic year cannot be used to repay prior academic year debts. Payments can be brought into the Cashier’s Office in the Student Services Building (SVC 1039) or mailed to the University of South Florida, P.O. Box 864571, Orlando, FL 32886-4571, or can be made online by accessing OASIS at http://usfonline.admin.usf.edu/ and should be made by the appropriate deadline.

Financial Aid

In addition to finding a wealth of information on the web regarding your financial aid, you can monitor your aid application via OASIS: http://oasis.usf.edu/.

The first step in obtaining financial aid is filing the Free Application for Federal Student Aid (FAFSA) at http://www.fafsa.gov. Be sure to list the University of South Florida, school code #001537, as a school to receive your information.

Since many programs are funded on a limited basis, it is to your advantage to apply early. Priority application dates and detailed information regarding financial aid are provided each year on the Scholarships and Financial Aid Services’ web site. Check out USF’s scholarship information at http://usfweb2.usf.edu/finaid/scholarships/. University Scholarships & Financial Aid Services communicates important information regarding aid exclusively via the student’s USF e-mail account. Tuition, housing and meal plan deferments are automatically posted for qualified financial aid applicants. The deadline for deferred tuition payment can be found at http://usfweb2.usf.edu/finaid/.
If you withdraw from USF, either officially or unofficially, before the end of a semester, you may be required to repay all or a portion of the aid you received. For detailed information on the Federal Return of Title IV Funds requirement, go to http://usfweb2.usf.edu/finaid/refund.aspx.

Each USF institution has financial representatives:
- Tampa: (813) 974-4700
- Sarasota-Manatee: (941) 359-4459
- St. Petersburg: (727) 553-4128

If you are outside the calling area, call the Scholarships & Financial Aid Services office at 1-877-USF-BULLS.

Academic Scholarships
University Scholarships & Financial Aid Services (USFAS) provides prospective and currently enrolled students with a central location to access scholarship information. The office administers The First Generation Matching Grant, The Florida Bright Futures Scholarships, and a variety of privately-funded scholarships made possible through the generosity of friends and alumni of the University. USFAS also manages the scholarship renewal process for students who have been awarded scholarships through the Undergraduate Admissions Office. An online search for USF scholarships may be found at: http://usfweb2.usf.edu/finaid/scholarships/.

The Office of Undergraduate Admissions offers a number of scholarships based on academic merit to students planning to enter USF for the first time as a freshman or upper-level transfer student. These scholarships are highly competitive. The criteria noted for the various scholarships are used as minimum starting points for consideration; meeting or exceeding the minimum requirements will not guarantee selection. For non-Florida residents, a limited number of out-of-state tuition waivers are available based on academic performance.

The individual colleges of the University administer some scholarships directly through the Dean's Office in each college. New and transfer students are advised to contact the Office of Undergraduate Admissions first for information regarding individual colleges' scholarship opportunities.
Immunization Policy

I. INTRODUCTION (Purpose and Intent of the Policy)

In order to ensure the health and wellbeing of the entire community, The University of South Florida System (USF System) requires the following immunizations, prior to registration and specific immunization to reside in on-campus housing.

II. STATEMENT OF POLICY (#33-002)

A. ALL STUDENTS MUST HAVE PROOF OF IMMUNITY (defined in Sec. D. below) AS FOLLOWS:

   MEASLES: Proof of Immunity.
   RUBELLA: Proof of Immunity.
   HEPATITIS B: Proof of Immunity or signed waiver declining the vaccine.
   MENINGITIS: Proof of Immunity or signed waiver declining the vaccine except as listed in Sec. B. below.

B. IN ADDITION, STUDENTS RESIDING IN ON-CAMPUS HOUSING MUST HAVE PROOF OF IMMUNITY AS FOLLOWS:

   MENINGITIS: Proof of Immunity required, as declining by waiver of this vaccine is not acceptable for students in on-campus housing. No student will be assigned housing without proof of vaccine.

C. HEALTH HISTORY FORM

   All students must complete and sign the USF Medical History Form.

D. PROOF OF IMMUNITY

   Students must provide Proof of Immunity for each disease as follows:

   1. MEASLES:
      a. Medical documentation of immunization with TWO (2) DOSES of live measles virus vaccine on or after the first birthday and administered at least 28 days apart. Persons vaccinated with killed, or an unknown vaccine, prior to 1968 must be revaccinated. Persons born before 1957 may be considered to have had a natural infection, and therefore meet the proof of immunity requirement. The documented date of immunization for measles should indicate the day, month, and year. However, month and year will suffice if the month and year indicate that the immunization was given at least 13 months after the month of birth, OR
      b. Copy of laboratory (serologic) evidence of measles immunity (IgG rubeola titer), OR
      c. A written, dated statement signed by a physician on his/her stationery that specifies the date seen and stating that the person has had an illness characterized by a generalized rash lasting three (3) or more days, a fever of 101° Fahrenheit or greater, a cough, and conjunctivitis, and, in the physician's opinion, is diagnosed to have had the 10 day measles (rubeola).

   2. RUBELLA:
      a. Medical documentation of immunization with live rubella virus vaccine on, or after, the first
Persons born before 1957 may be considered to have had a natural infection, and therefore meet the proof of immunity requirement. The documented date of immunization for rubella should indicate the day, month, and year. However, month and year will suffice if the month and year indicate that the immunization was given at least 13 months after the month of birth, OR

b. Copy of laboratory (serologic) evidence of rubella immunity (IgG rubella titer).

3. HEPATITIS B:
   a. Medical documentation of immunization with 3 doses of Hepatitis B vaccine, OR
   b. Copy of laboratory (serologic) evidence of Hepatitis B immunity (anti-HBs titer).

4. MENINGITIS:
   Medical documentation of immunization with Meningitis vaccine at age 16 or later or signed waiver of the vaccine. Declining by waiver of this vaccine is not acceptable for students in on-campus housing. No student will be assigned housing without proof of vaccine.

E. EXEMPTIONS WILL BE CONSIDERED AS FOLLOWS:
   1. RELIGIOUS: Religious exemptions- contact USF Student Health Services for an application.
   2. MEDICAL: Requests for temporary or permanent medical exemptions must be submitted to USF Student Health Services by the attending physician and must include reason for exemption and duration of exemption.
   3. ON-LINE COURSES: Students registered in 100% on-line courses may be exempt from the requirements of this Policy. However, if a student registers for any on-campus course at any time, the immunization requirements of this Policy will be in effect for all future courses.

   In the event of a disease outbreak, students exempted from immunization requirements may be requested by the University, at the direction of public health officials, to show titer Proof of Immunity, become immunized, or remain off campus for the duration of the outbreak. All requests for exemptions will be reviewed to ensure consistency in application.

F. CONSEQUENCES:
   Students who fail to comply with the requirements as stated above will be blocked from registration, restricted from on-campus housing assignment, and/or a registration hold will be placed on their record. In specific circumstances a temporary override may be granted, however, vaccination requirements must be completed before further registration in subsequent terms will be permitted and current registration may be suspended if any deficiency in immunization status is identified.

HEALTH CARE INSURANCE REQUIREMENT FOR INTERNATIONAL STUDENTS
The State University System of Florida requires that all international students have medical insurance in order to register for classes at USF.

Immunization and vaccinations questions may be directed to Student Health Services, 813-974-2331.

Registration for Admitted Degree-Seeking Students
Continuing degree-seeking students register by appointment for their next semester’s courses during the preceding term, using the OASIS system. Appointment times and instructions for all registration periods are online for the appropriate semester at www.registrar.usf.edu.

Prior to initial registration, all newly admitted undergraduate students are required to participate in an orientation/academic advising program on the USF campus to which they are admitted. Newly admitted students receive Orientation/Academic Advising/Registration instructions from the USF Office of Orientation.

Registered students may make course schedule adjustments from the time of their initial registration through the first week of classes. (Deadline information is available in the Academic Calendar.)

Degree-seeking students who do not register prior to the first day of classes may late-register the first week of classes, however, a $100.00 late registration fee is charged during this week. (See the section on fees for additional information and the appropriate term’s Schedule of Classes for dates.) To avoid cancellation of registration, fees are due and payable for all registered courses of record on the fifth day of classes (end of drop/add period). (See Academic Calendar for dates.)

NOTE: A Mandatory Medical History Form is required for all students (regardless of age). According to Florida Administrative Code Rule 6C-6.001(5), “Each student accepted for admission shall, prior to registration, submit on a form, provided by the institution, a medical history signed by the student.”
This policy has been put into effect so that USF may effectively utilize classroom space and to insure that all students have maximum opportunity to enroll in classes where demand exceeds availability of seats and to avoid overpayment of financial aid for students who are not enrolled at the outset of the academic term.

Students are required to attend the first class meeting of undergraduate courses for which they registered prior to the first day of the term. Names of students who register prior to the first day of the term are shown on the first class roll in Canvas for each course section. The first day class roll is used by instructors to drop students who do not attend the first day of class. Students having extenuating circumstances beyond their control and who are unable to attend the first class meeting must notify the instructor via email using the University’s course management system (i.e., Canvas) prior to the first class meeting to request waiver of the first class attendance requirement. To avoid fee liability and academic penalty, the student is responsible for insuring that he/she has dropped or been dropped from all undesired courses by the end of the fifth (5th) day of classes. For Saturday only courses or courses that begin on a Saturday, students are expected to contact the Registrar's office on their respective USF campus to drop the course(s).

USF’s distance learning students must log-in to their course(s) during the first five (5) weekdays from the calendar start date of their online course(s) and complete requirements specified in the course syllabus to be counted as having attended and to avoid being dropped from the course. Students who are unable to log-in to their course(s) due to circumstances beyond their control must notify the instructor via email using the University's course management system (i.e., Canvas) prior to the calendar start date of the course to request waiver of the first class attendance requirement.

Note: The Registrar's Office does not add students to any courses. Students are required to add a course via OASIS.

Cancellation before First Class Day

Students may cancel their registration by notifying the Office of the Registrar in writing prior to the first day of classes. If fees have already been paid, the student may request a full refund of fees from the Office of Purchasing and Financial Services.

Course Syllabus

A syllabus is an academic agreement that establishes the academic relationship between instructors and students in a course and is used as the basis for communication and accountability. A syllabus of instruction for each course is available at the beginning of each class. Among the items communicated are course requirements, materials, and objectives; expected learning outcomes; and a general grading scale. The syllabus is subject to revision due to various exigencies or to better facilitate instruction, and will not include unreasonable additions to the workload described in the original syllabus. Contents of the syllabus are subject to change with reasonable notice and any syllabus change will be declared to all members of the course.

Course Notes and Recording

As part of the education and learning experience, enrolled students routinely take course lecture notes. With the permission of the instructor, students may record lectures as well. Lecture notes and recordings involve the intellectual property rights of instructors and the University of South Florida's (USF) regulation of the commercial use of such notes or recordings. This policy sets forth limitations on, and the University of South Florida's regulation of the use of notes/recordings.

Students may take notes during lectures/class presentations and, with the permission of the instructor or as authorized by the Office of Academic Support and Accommodations for Students with Disabilities and with the instructor's knowledge, make a recording of the lecture/presentation. Such notes and recordings may be used for individual or group study, or for other noncommercial purposes reasonably arising from the student's enrollment. Notes, recordings, handouts and other material provided by the instructor cannot be exchanged or distributed for commercial purposes or for any purpose not related to a student's study or enrollment absent the express written authorization of the instructor.

Selling or distributing notes, handouts, etc. without authorization or using them for any commercial purpose without the express written permission of the University of South Florida and the instructor is a violation of the USF Student Code of Conduct.

Commercial Activities on the USF Campus: USF Regulation 6.026 and Policy No. 0-018, concerning distribution of material and solicitation on campus, prohibit commercial activity on campus with certain expressly enumerated exceptions. Unless authorized by the University of South Florida in advance and explicitly permitted by the instructor,
the sale or taking of class notes and/or recordings constitutes unauthorized commercial activity in violation of the foregoing Regulation.

General Attendance

Students are expected to attend classes. An academic program or individual instructor may require a specified level of attendance as a condition for successfully completing a course. Likewise, instructors may assign a portion of final course grades based on attendance and participation. Faculty must inform students of attendance requirements on syllabi.

Instructors should accommodate excused absences by making arrangements with students ahead of time (when possible) or by providing a reasonable amount of time to make up missed work. Arranging to make up missed work is the responsibility of the student. For graded work that requires participation in situ (e.g., discussions, group activities, and some labs), instructors will attempt to provide reasonable alternatives that accomplish the same learning outcomes. Nevertheless, an instructor may determine that missing a certain amount of participation-dependent activities (whether excused or not) precludes successful accomplishment of learning outcomes. In cases like this, instructors, academic advisors, or academic deans may advise students to withdraw from such courses. In cases where excused absences are anticipated in advance, advice on successful accomplishment of learning outcomes can be given at (or before) the start of a term.

There are two categories of excused absences for which accommodations will be made: scheduled and unscheduled. Scheduled absences involve time conflicts that are known in advance, for which students have notified their instructors. Acceptable reasons for scheduled absences include observation of religious holy days, court-imposed legal obligations (e.g., jury duty and subpoenas), special requirements of other courses and university-sponsored events (e.g., performances, athletic events, judging trips), and requirements of military service. Employment schedules, athletic training and practice schedules, and personal appointments are not valid reasons for scheduled absences. Unscheduled absences involve unforeseen emergencies such as illness, injury, hospitalization, deaths in the immediate family, consequences of severe weather, and other crises. Students should contact instructors as soon as possible in these cases. Instructors may require documentation or verification to excuse unscheduled absences.

Care will be given to schedule required classes and examinations in view of customarily observed religious holy days. No student shall be compelled to attend class or sit for an examination at a day or time prohibited by his or her religious belief.

Any student who believes he or she has been treated unfairly with regard to the above may seek review of a complaint through established Student Academic Governance Procedures (found in the Graduate and Undergraduate catalogs and those provided by the University’s Office of Diversity and Equal Opportunity.

Procedures for Excused Absences and Make-up Work

Students must notify their instructors of scheduled absences (for approved reasons as noted above) at the beginning of each academic term. Pointing out specific conflicts with scheduled examinations or other scheduled assignments/activities should be part of this notification. In the event of an emergency unscheduled absence (as described above), students must contact their instructors as soon as possible and provide documentation if required.

If an excused absence coincides with an examination, the student (1) will be given a reasonable opportunity to make up the exam or (2) will not have that work averaged into the student’s grade, as agreed to between the student and the instructor. Counting the missed examination as a lowest score to be dropped at the end of the term does not constitute a reasonable opportunity. If an excused absence coincides with other graded work (e.g., homework collection, quizzes, presentations, activities, etc.), the student shall be given a reasonable opportunity to make up such work or shall not have that work averaged into the student’s grade, at the discretion of the instructor.

As noted above, however, an instructor may determine that excessive absences (whether excused or not) may threaten or preclude a student’s successful completion of a course. Similarly, making up work for unexcused absences may be allowed or declined entirely at the discretion of the instructor.

Documented Jury Duty

The University respects the need for all citizens to serve on a jury when called to duty. If a student serves as a juror, class absences will be considered excused when the student provides advance notice to the instructor, the instructor acknowledges the request, and the student provides written verification of jury selection and proof of service.

Any potential student juror may notify the court of conflicts or undue hardship and request an excuse from service. The individual student must make the decision as to whether jury service will present an undue hardship and then take the affirmative action to request to be excused from service and may need to provide a written explanation to the court. If a student does not request to be excused and is selected to serve, the student may miss a prolonged period of time resulting in the inability to complete the academic requirements of classes.
Documented Medical Attention for Illness

Students are excused for absences due to documented illnesses that require medical attention. While students should not attend class with infectious conditions, even if medical attention is not sought, the decision to excuse absences from undocumented illnesses is at the discretion of the individual instructor. Consideration should also be given to students whose dependent children experience serious illness. Extended illnesses may interfere with the successful completion of courses, and in such cases a student should contact his or her college by the deadline to drop a course. After the drop deadline, students may submit an Academic Regulations Committee (ARC) petition with proper documentation to drop a course or withdraw for medical reasons. Students may find additional information through their college ARC representative.

Alternative Academic Process for Seriously Traumatized Students

An alternative academic process is provided for those seriously traumatized students who have received assistance from the Center for Victim Advocacy and Violence Prevention or Student Health Services when the professionals of those centers have reviewed the personal and confidential information related to the student’s experience to determine appropriate actions for the student.

The USF Center for Victim Advocacy and Violence Prevention, the Counseling Center and Student Health Services will assist in determining appropriate actions, including waiving certain academic regulations to accommodate the student’s needs. The appropriate center will send the student petition—with the recommended action—to the Associate Dean of Undergraduate Studies who will assist with the process after reviewing the request.

Medical Amnesty (Student Reporting)

USF Policy 30-004

The University of South Florida System (USF System) supports an inclusive learning environment that promotes the health and safety of all members of the University community.

This Amnesty Policy seeks to diminish fear of University-imposed disciplinary and/or conduct sanctions in emergency situations due to alcohol and/or other drug use or misuse.

Any student who qualifies for amnesty under this policy will not be charged with violations of any of the University System Student Codes of Conduct as those Codes relate to consumption and/or use of alcohol and/or drugs. Under this Policy, students who seek or receive emergency medical assistance for themselves or students who seek assistance for another student experiencing an emergency related to the consumption of alcohol and/or other drug use or misuse may qualify for amnesty. Although students who qualify for amnesty may be exempt from the Student Conduct process, they may be required to complete educational measures and pay for any incurred cost associated with those requirements.

Early Notification of Instructor Requirement for University Sponsored Activities

The University recognizes the importance of participation in University-sponsored activities such as musical and theatrical performances, athletic competition, and debate. It also recognizes that such participation may result in conflicts with scheduled class times. It is the responsibility of participating students to provide a full list of anticipated conflicting days to instructors by the end of the first week of the term, and directors and advisors of University activity programs have an obligation to assist students with this task. Students are responsible for identifying potential absences specific to a particular class and notifying individual instructors of these conflicts, especially for conflicts with scheduled examinations. Please note that a general schedule for a team or ensemble does not satisfy this notification requirement. Students should provide instructors with addenda (e.g., end-of-season tournaments, newly scheduled events, or rescheduled events) that result in new conflicts as soon as they are available. Directors and advisors of University activity programs should consult with participating students prior to registration to help them choose courses that do not have excessive anticipated conflicts.

Early Notification Requirement for Observed Religious Days

USF Policy 10-045

In accordance with USF Policy 10-045, USF faculty members will try to avoid scheduling examinations on customarily observed religious holidays. Students must provide written notice to their instructors at the beginning of each academic term if they expect to be absent for a class or announced examination for the observance of religious holy days. In any case, no student shall be compelled to attend class or sit for an examination at a day or time when such activity is prohibited by his or her religious belief, as long as the student has provided timely notice.

If a student believes that an instructor or program has not responded reasonably to a timely notice of expected observance of religious days, he or she may seek review of a complaint through established University Academic
Grievance Procedures (found in the Graduate and Undergraduate Catalogs) and those provided by the University's Office of Diversity and Equal Opportunity.

Adds

After a student has completed his/her registration on the date assigned, he/she may add courses until the add deadline specified in the Academic Calendar. See the appropriate semester's University Schedule of Classes for detailed instructions and dates online at http://www.registrar.usf.edu/ssearch/search.php.

Drops/Withdrawals

A student may drop a course(s) during the drop/add periods (first five days of classes) and no entry of the course(s) will appear on any permanent academic records. No tuition or fees will be assessed for course(s) dropped within that period.

A student may withdraw from a course(s) between the second and tenth week of the semester (except for summer sessions - see the Summer Schedule of Classes for dates). However tuition and fees will be assessed for any course(s) withdrawn by the student after the first week. The student's academic record will reflect a "W" grade for any course(s) withdrawal between the second and tenth week of the semester. Under specific conditions, refund of tuition and fees may be requested in writing from the Office of the Registrar.

Students who withdraw may not continue to attend classes.

Effective Fall 2011, all undergraduate students will be limited to a total of five course withdrawals while enrolled as a degree-seeking or a non-degree seeking undergraduate student at USF. The five course withdrawals will be limited to three course withdrawals for students with less than 60 semester credit hours, and two course withdrawals for students with more than or equal to 60 semester credit hours. Only in extenuating circumstances will approval be granted for more than five course withdrawals. Appeals for additional course withdrawals due to extenuating circumstances must be submitted to the Academic Regulations Committee in the college of the student’s academic major.

Auditing Privileges and Fees

A student who wishes to sit in on a class to review the course material may do so; however, the student is not allowed to take exams, earn grades, or receive credit.

The student’s status for that class is an audit and his/her presence in the classroom is as a listener. Audit status must be obtained only during the first five days of the term by filing an Audit Form and a date-stamped permit from the college/department on the campus where the course is being offered, with the Registrar’s Office. IN-STATE fees are assessed for all audit courses.

Excess Hours Surcharge

USF Regulation 4.0102

In 2009, the Florida Legislature implemented Section 1009.286, Florida Statutes to encourage students to complete their baccalaureate degree as quickly and efficiently as possible. It established what is commonly referred to as an "Excess Credit Hour Surcharge." The provisions of this section became effective for students who entered a Florida community college or a Florida state university for the first time in the 2009-2010 academic year and thereafter.

The bill requires universities to add a surcharge to each credit hour taken in excess of the total hours calculated, based on a percentage defined in law. See the following table:

<table>
<thead>
<tr>
<th>Students Entering as FTIC SUS (First Time in College State University System of Florida) or FTIC FCS (First Time in College Florida College System)</th>
<th>Fees to be Charged</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior to Fall 2009</td>
<td>None</td>
</tr>
<tr>
<td>Fall 2009 – Summer 2011</td>
<td>50% for credits above 120% of total program hours</td>
</tr>
<tr>
<td>Fall 2011 – Summer 2012</td>
<td>100% for credits above 115% of total program hours</td>
</tr>
<tr>
<td>Fall 2012 and thereafter</td>
<td>100% for credits above 110% of total program hours</td>
</tr>
</tbody>
</table>

The surcharge is assessed only on the tuition portion of the semester hour cost, not on the fees.
The number of total program hours required for the baccalaureate degree will be identified by the student’s declared major. This is typically 120 semester hours, although, some programs have been approved to require more than 120 semester hours.

For further information, visit the Registrar’s website at: www.registrar.usf.edu.

Note: No institution may waive the excess hours surcharge as the language of the statute is mandatory.

Repeat Course Surcharges

Initiated by the Florida Legislature (H.B. 1545 of 1997) to reduce costs, all state universities must monitor undergraduate student progress and charge students the “full cost of instruction” for certain repeats of undergraduate courses. This policy became effective Fall 1997 and requires USF to charge students a substantial per credit hour surcharge when they attempt a course three or more times at USF, unless the course is specifically designed to be repeated or is required to be repeated by their major. Requirements to earn a passing or higher grade than previously earned in a course do not exempt the surcharge. Students will be required to pay the surcharge in addition to the appropriate in-state or out-of-state tuition rates. It is important to note that all attempts count, including withdrawals after the first week of classes and courses with incomplete grades.

The University may grant exceptions to this rule based on extenuating circumstances and financial hardship. However, the University may only approve one appeal per course. The exceptions included in the Statute are extenuating circumstances and financial hardship and are defined as follows:

Extenuating circumstances are those circumstances determined by the University to be exceptional and beyond the control of the student and may include but not be limited to serious illness, documented medical condition preventing completion; death of an immediate family member, involuntary call to active duty; university error, other emergency circumstances or extraordinary situations. Documentation, regardless of the situation, must be submitted with the request for a waiver of this surcharge.

The criteria used by the universities for determining financial hardship should include, but not be limited to, qualification for federal need-based financial aid. Students with other documented financial hardships may also be considered.

The student must fill out a Fee Adjustment Request Form and indicate the request is for a waiver of the repeat course surcharge. They must also submit a statement that explains their request and provide all documentation relating to it. The completed form with documentation should be submitted to the Office of the Registrar for consideration.

Academic Advising for Undergraduate Students

USF seeks to guide all students in selecting programs and courses best suited to their personal abilities, educational interests, and career objectives. Students who have been admitted to the University and have chosen their major area of study may visit their designated academic advising office housed in one of the ten colleges offering baccalaureate degrees. Others who have not yet declared a major should visit the TRansitional Advising Center (TRAC).

All admitted students are strongly encouraged to establish an advising relationship with a college or TRAC and visit their advisors to keep abreast of any policy, procedural or curriculum changes that may affect them. Newly admitted freshmen students are required to meet with an academic advisor each semester until they have earned 30 credit hours. It is important for students to keep in mind that although the University provides advising services to assist students with academic planning, it is each student’s responsibility to see that all graduation requirements are met.

Tracking Academic Progress of Students

(ATLAS: Advanced Tracking Leading to Academic Success)

ATLAS is the University of South Florida’s academic advising and monitoring system that provides students with a recommended track plan for each major. The track plan is the optimal sequence of courses that complete the bachelor’s degree in four years (8 semesters) for most programs. The plan for each major may be viewed online via the Undergraduate Studies website or by meeting with your program’s academic advisor.

Students’ academic progress is monitored fall, spring and summer semesters to ensure that they are on course to earn their degrees within four years; Summer semesters, however, do not contain critical tracking criteria so that students may engage in other opportunities such undergraduate research, education abroad, or complete outstanding criteria from another semester.

Students are responsible for checking their own progress and are encouraged to contact their academic advisors with any questions concerning their programs of study. In addition, academic advisors may contact students who are not making appropriate progress. Students who intend to change their majors should do so as early as possible to ensure they receive the most efficient advice regarding critical tracking criteria.
DegreeWorks Academic Advising System

DegreeWorks is the University of South Florida's computer-assisted advising tool that provides real-time advice, promotes student success, and speeds time to graduation. The reports produced by DegreeWorks are available to active degree seeking undergraduate students through its web interface available at: https://degreeworks.usf.edu/.

DegreeWorks creates personalized reports by matching the student's academic record (both USF and transfer courses) against the requirements of the student’s degree program. Students can use the “What If” worksheet to explore different degree programs by creating a tailored curriculum including majors, concentrations, and minors. The “Look Ahead” feature is available for students to see how a proposed schedule of classes will be used toward completing their degree.

Transcript Information

Transcripts of a student's USF academic record may be released only by authorization of the student online at http://usfonline.admin.usf.edu/ or in person or by writing to the Office of the Registrar. By law, requests must include the student's identification number, the date and the student's signature or through OASIS, the University of South Florida's Online Access Student Information System. Login with your Net ID and self-assigned password which is, essentially, your electronic signature. In order for transcripts to be issued, the student must have no financial obligations to the University or any hold restricting receipt of the transcript. Transcripts are normally mailed/ready for pick-up within two working days after the request is received.

Letter requests must include: (1) date of request and student’s current address; (2) student ID number and full name; (3) name and complete address of recipient; and (4) number of copies and special instructions, such as, “hold for degree statement” or “hold for current term grades,” and the student's signature. Degree statements are posted approximately four to six weeks after the graduation ceremony. Current term grades are posted approximately one week after the final exams end. If grades for the current term are needed, clearly indicate that the transcript request is to be held for grades.

To order transcripts by mail, send payment ($10.00 per copy, check or money order only) and letter to:
  Transcript Clerk, Registrar’s Office
  USF-SVC 1034
  4202 E. Fowler Avenue
  Tampa, FL 33620-6950

To order a transcript in person, hand-carry payment (check, money order or cash) and letter to USF Cashier's Office in SVC 1039.

Note: Transcript fees are subject to change.

Student Records Policy

USF Regulation 2.0021

Pursuant to the provisions of the Family Educational Rights and Privacy Act (“FERPA”; 20 USC Par. 1232g), 34 CFR Par. 99.1 et seq, Florida Statutes Sub. Par. 1002.22 and 1006.52 and USF Regulation 2.0021, Florida Administrative Code, students have the right to:
1. Inspect and review their education records
2. Privacy in their education records
3. Challenge the accuracy of their education records
4. Report violations of FERPA to the FERPA Office, Department of Education, 400 Madison Avenue, SW, Washington, D.C. 20202 and/or bring actions in Florida Circuit Court for violations of USF Regulation 2.0021, Florida Administrative Code.
5. Copies of the University's student records policy, USF Rule 6C4-2.0021, may be obtained from:
   University Registrar or USF Agency Clerk
   SVC 1034 or Office of the General Counsel
   4202 Fowler Avenue or 4202 Fowler Avenue - ADM 250
   Tampa, Florida 33620 or Tampa, Florida 33620

Release of Student Information

Pursuant to requirements of the Family Educational Rights and Privacy Act (FERPA), the following types of information, designated by law as “directory information,” may be released via official media of USF (according to USF policy):
Student name, local and permanent addresses, telephone listing, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and
awards received, full- and part-time status, and the most recent previous educational agency or institution attended, and other similar information.

The University Directory is published on-line by the University, and, therefore, is accessible to the public, as well as to students, faculty, and staff.

Students must inform the USF Office of the Registrar in writing (forms available for that purpose), if they wish directory information to be withheld. Such requests must be received within the first two (2) weeks of the semester and will remain in effect until the student has not been enrolled at USF for three (3) consecutive terms.

Notification to the University of refusal to permit release of “directory information” via the University Directory must be received no later than the end of the first week of classes in the Fall Semester.

Confidentiality Policy

In the interest of openness and building trust with our students, USF now affords students the right to limit data usage and sharing of their information, without having to request non-disclosure of directory information under the Family Education Rights and Privacy Act (FERPA). Pursuant to the requirements of FERPA, the following types of information designated by law as “directory information” can be released, if the student has not requested privacy or non-disclosure: Name, Date of Birth, Address, Telephone, Major, Dates of Attendance, Enrollment Status, Degrees, and Prior Institutions Attended.

All other student data is considered to be protected.

Under new University policy which is less restrictive than Privacy under FERPA, students may now request confidentiality as a way to “opt out” from having their personal contact information (i.e. name, address, telephone) disclosed to vendors, credit card companies, or outside agencies that are not providing a service that would otherwise be performed by the University. To request confidentiality, go to: https://www.registrar.usf.edu/privacy/.

Academic Record

The student’s academic record shall not be changed after the student has graduated.

Administrative Holds

A student may be placed on administrative hold by failure to meet obligations to the University. When a student is on administrative hold, he/she may not be allowed to register, receive a diploma, or receive a transcript. Settlement of financial accounts must be made at the University Cashier’s Office. Each student placed on administrative hold should determine from the Office of the Registrar which office placed him/her in this status and clear the obligation with that respective office.

Student Information Changes

Notifications regarding changes of address, name, residency, and citizenship should be filed promptly with the Office of the Registrar.
Semester System

USF operates on a semester system. Semesters begin in August and January with Summer Sessions beginning in May and July. See Academic Calendar for appropriate dates.

Academic Load

The maximum load of an undergraduate student is 18 hours (Fall & Spring semesters) and 14 hours (Summer Term), unless approval is received from the dean or an authorized representative of the student’s college. Students classified as Undecided must receive approval from the TRansitional Advising Center. In the Fall or Spring Semester 12 hours is the minimum load for a student to be considered as full-time.

Full-time Undergraduate Student Definition - Summer Term

Sessions “A” & “B” (6 weeks)

For Academic purposes: 6 hours or more each session
For Financial aid purposes: must enroll for 12 hours (undergraduate) in any combination of Sessions “A,” “B” and “C”

Session “C” (10 weeks)

For Academic purposes: 9 hours or more
For Financial aid purposes: must enroll for 12 hours (undergraduate) in any combination of Sessions “A,” “B” and “C”

Students receiving Veterans’ Affairs benefits should confirm their Summer Term enrollment with the Office of Veterans’ Services or Veterans’ Coordinator.

Undergraduates may not enroll in 6000-level courses or higher without approval of the college/department in which the course is offered.

Availability of Courses

USF does not commit itself to offer all the courses, programs, and majors listed in this catalog unless there is sufficient demand to justify them. Some courses, for example, may be offered only in alternate semesters or years, or even less frequently if there is little demand.

Transfer of Credit to USF

USF will accept credits only from those institutions accredited by one of the accrediting agencies/commissions recognized by USF. However, USF reserves the right to deny credit for specific courses. The receipt and evaluation of total transfer credit are the responsibility of the Office of Undergraduate Admissions. The college of the student’s major will determine which courses are applicable toward a specific degree and will assign equivalent courses (see Evaluation of Transfer of Credit under Admissions and Related Matters).

USF subscribes fully to all of the provisions of the statewide Articulation Agreement (Rule 6A-10.024) and strongly recommends that students complete the associate of arts degree or, in certain prior-approved areas, the associate of science degree, before transferring. Special details for students who do not plan to complete the associate degree requirements are available from the Office of Undergraduate Admissions. Also, all transfer students should refer to other entries about undergraduate transfers in the Admissions section of this catalog.

Award of Credit for Military Training

BOG Regulation 6.103

Students who are or were eligible members of the United States Armed Forces may earn appropriate college credit for college-level training and education acquired in the military. College credit will be granted to students with military training or coursework that is recognized by the American Council on Education (ACE), subject to institution transfer practices and limitations on amount, level, etc. of transfer credit. Military training or coursework will be subject to the same treatment as any other transfer credit evaluated, with utilization of the ACE Guide to the Evaluation of Education Experiences in the Armed Services for determining equivalency and alignment of military coursework with appropriate university courses. If the coursework fulfills a general education or major course or degree requirement, the credit will be granted for meeting that requirement towards graduation. Appropriate course credit may include free elective course credit toward the degree.

Credit that was previously evaluated and awarded by another college-degree granting institution and that is appropriate to the transfer student’s major will be accepted, subject to institution transfer limitations. Credit awarded for military education and training will be noted on the transcript and documentation of the credit equivalency evaluation will be maintained. Credit awarded for military education and training will not count in the excess hours fee per BOG Regulation 7.003. Priority course registration will be provided for each veteran of the United States Armed Forces who is receiving (from the) GI Bill.
Former Student Returning

The Office of Admissions will evaluate the acceptability of transfer of credits taken at regionally-accredited institutions since last enrolled at USF. The college of the student’s major will determine which courses are applicable for his/her major. In some instances, exact course equivalents will also be determined by other colleges that offer the same or similar course(s) as a part of their programs of study.

Declaration of Major

It clearly is advantageous for students to make early decisions about their major, to be on track and to remain on-track toward their degrees and to graduate in a timely manner. With over 100 majors and concentrations to choose from, USF allow students considerable options in their early course choices. Students are encouraged to declare a major upon entry to the university. If they are unable to select or declare a major formally or a pre-major, they should follow the exploratory (for undecided) curriculum that best matches their interests.

FTIC students must be officially declared in a major or a pre-major before they register for more than 36 credits, including credit earned via Advanced Placement, International Baccalaureate, or Dual Enrollment coursework. Students will not be allowed to register for further credit coursework at the university until they have declared a major or pre-major.

Transfer students should declare their majors upon entry to the university. Transfer students with 60 or more semester hours must declare a major and will not be allowed to register for further credit coursework at the university until they have declared a major or a pre-major.

Courses to Satisfy the Board of Governor’s Articulation Resolution (6.017) (“Gordon Rule”)

Prior to receipt of an Associate in Arts degree from a Florida College System institution or university or prior to entry into the upper division of a public university or college, a student shall complete successfully the following:

a. Six (6) semester hours of English coursework and six (6) semester hours of additional coursework in which the student is required to demonstrate college-level writing skills through multiple assignments. Each institution shall designate the courses that fulfill the writing requirements of this section. These course designations shall be submitted to the Statewide Course Numbering System. An institution to which a student transfers shall accept courses so designated by the sending institution as meeting the writing requirements outlined in this section.

b. Six (6) semester hours of mathematics coursework at the level of college algebra or higher. For the purposes of this rule, applied logic, statistics and other such computation coursework which may not be placed within a mathematics department may be used to fulfill three (3) hours of the six (6) hours required by this section.

c. Students awarded college credit in English based on their demonstration of writing skills through dual enrollment, advanced placement, or international baccalaureate instruction pursuant to 6A-10.024, and students awarded college credit based on their demonstration of mathematics skills at the level of college algebra or higher through one or more of the acceleration mechanisms in 6A-10.024, shall be considered to have satisfied the requirements in subsection 6.017(2), to the extent of the college credit awarded.

Note: The Gordon Rule communication and computation requirements are considered met for any student entering the university with an A.A. from a Florida College System institution. The Gordon Rule communication requirement is considered met for any student entering the university with 60 or more hours.

Students must achieve a proficiency level of at least C- in the course in order to receive Gordon Rule Communication credit. Courses to satisfy Gordon Rule may not be taken on an S/U basis. Please visit USF’s course inventory website to search for courses that meet Gordon Rule requirements.

Note: CLEP general/subject examinations in mathematics, calculus, college algebra, college algebra-trigonometry, and trigonometry may satisfy this requirement.

Grades, Scholarship Requirements, and Review Procedures

The University is interested in each student making reasonable progress towards his/her educational goals and will aid each student through guidance and faculty advising. To make students aware of their academic progress, the University has enacted a system of grading and policies of Academic Probation and Academic Dismissal that indicates whether or not a student is showing sufficient progress toward meeting degree requirements. Notations of Grades,
Academic Probation and Academic Dismissal are posted to the student’s academic record. When a student is academically dismissed from the University and is ineligible to re-enroll, it may be in his/her best interest to re-evaluate his/her educational goals with an academic advisor in his/her college. If the student’s poor academic performance has resulted from extenuating circumstances or if after a period of time the student feels he/she has gained adequate maturity and motivation, he/she may petition the Academic Regulations Committee for permission to re-enroll. See “Academic Regulations Committee,” for information on petitioning.

Grading System

Effective Fall Semester, 2000, USF faculty may use a plus/minus grading system to assign student grades. The use of the plus/minus grading system is at the discretion of the individual faculty member.

A student’s measure of academic achievement is recorded on the academic record based on the following grading system:

<table>
<thead>
<tr>
<th>Plus/minus Grades</th>
<th>Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.00</td>
</tr>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.67</td>
</tr>
<tr>
<td>B+</td>
<td>3.33</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.67</td>
</tr>
<tr>
<td>C+</td>
<td>2.33</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td>1.67</td>
</tr>
<tr>
<td>D+</td>
<td>1.33</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>D-</td>
<td>0.67</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Other Grades

- E  Course repeated, not included in GPA
- FF Failure/academic dishonesty
- I  Incomplete
- IF Incomplete grade changed to Failure
- IU Incomplete grade changed to Unsatisfactory
- M  No grade submitted by instructor
- N  Audit
- R  Repeated Course
- S  Satisfactory
- U  Unsatisfactory
- W  Withdrawal from course without penalty
- WC Withdrawal for extenuating circumstances
- Z  Indicates continuing registration.

Please note that the grade of C- will satisfy specified minimum requirements of the Gordon Rule courses and the common prerequisites unless otherwise specified in the Catalog.

Grade Point Average

The University uses the quality points listed above. The grade-point average (GPA) is computed by dividing the total number of quality points by the total hours attempted at USF. The total quality points are figured by multiplying the number of credits assigned to each course by the quality point value of the grade given. Credit hours for courses with grades of I, IU, M, N, S, U, W, Z, and grades that are preceded by an “E” are subtracted from the total hours attempted before the GPA is calculated.

Credit hours for repeated USF coursework will be awarded only once per course unless the course is a university-approved repeatable course. “D” and “F” grades, however, for repeated USF coursework will be counted in the computation of the student’s GPA as many times as those grades for that course are recorded. If a student originally earns a “C” or higher in a course that may not be repeated for additional credit and earns a “C” or higher on a subsequent enrollment the new grade is not computed in the USF GPA unless the forgiveness policy is being applied.

“I” Grade Policy

An “I” grade indicates incomplete coursework and may be awarded to graduate and undergraduate students. (Undergraduate rules apply to non-degree-seeking students.) It may be awarded to an undergraduate student only when a small portion of the student’s work is incomplete and only when the student is otherwise earning a passing
grade. Until removed, the "I" is not computed in the GPA for either undergraduate or graduate students. The time limit for removing the "I" is to be set by the instructor of the course. For undergraduate students, this time limit may not exceed two academic semesters, whether or not the student is in residence, and/or graduation, whichever comes first. "I" grades not removed by the end of the time limit will be changed to "IF" or "IU," whichever is appropriate. If an instructor is willing, he or she may accept work from a student after an I grade has changed to an IF or IU grade, and assign the student a final grade in the course, unless the student has graduated. Whether or not the student is in residence, any change to "IF" grades will be calculated in the cumulative GPA and, if applicable, the student will be placed on appropriate probation or academically dismissed. Students are not required to re-register for courses in which they are only completing previous course requirements to change an "I" grade. However, if a student wants to audit a course for review in order to complete course requirements, full fees must be paid.

"M" Grade Policy

An "M" is automatically assigned as a default grade when the instructor does not submit a grade for a student. (Undergraduate rules also apply to non-degree-seeking students.) Unless a change of grade is submitted, the "M" grade will remain on the transcript and will not be computed in the student's GPA.

S/U Grade System

No-option Courses

Certain courses have been designated as S/U courses. The "S" and "U" grades are used to indicate the student's final grade. No grading system option is available to students or faculty in these courses.

Option Courses

Any undergraduate course may be taken on an S/U basis by a student under the following conditions and restrictions:

2. Required courses in the major may not be taken on an S/U basis.
3. Specifically designated required courses in the distribution requirements of the student's college may not be taken on an S/U basis.
4. Courses to satisfy 6A-10.30 (Gordon Rule) may not be taken on an S/U basis.
5. Courses to satisfy Foundations of Knowledge (FKL) General Education may not be taken on an S/U basis.
6. Courses to satisfy USF's B.A. foreign language requirement may not be taken on an S/U basis.
7. All elective courses for the major and all elective courses in the distribution requirements and all other free elective courses may be taken on an S/U basis except where:
   a. The certifying college restricts the number of courses that may be taken on an S/U basis in any one or all of the above areas or restricts the total number of S/U courses that can be accepted for all of the above areas.
   b. The certifying college specifies that certain courses may not be taken on an S/U basis.
   c. The instructor of a course refuses to allow the course to be taken on an S/U basis.

Mechanism for Assigning S/U Grades

The method by which a student receives an "S" or "U" grade in an option course will consist of the following:

1. A written agreement signed by both instructor and student shall be filed with such offices as may be designated by the college. The college shall set the deadline (no later than the last day of classes for the term) for the student to decide if he/she wishes to take the course on an S/U basis.
2. The instructor shall assign final letter grades A, B, C, D, F, or I, but will transmit to the Registrar "S" or "U" consistent with the following:
   a. Letter grade, A, B, C, or C- shall be equivalent to a letter grade of "S."
   b. Letter grades D or F shall be equivalent to a letter grade of "U."
   "S" and "U" grades are not computed in the student's GPA.

Mid-Term Grades

USF Policy 10-504

It is the student's sole responsibility to be aware of their academic standing and grade status in all courses. In an attempt to assist the student in evaluating his/her academic status mid-term, the University requires instructors of fall and spring courses to submit midterm grades electronically for each student enrolled in 1000-, 2000- and 3000-level courses (*1000- and 2000-level courses only at USF Sarasota-Manatee). Instructors may choose to not report mid-term grades for alternate calendar courses, study abroad, directed studies, internships and other courses that do not follow the normal course schedule for the academic term. Once posted, the mid-term grades are available to students in OASIS.

This is a courtesy to the student and failure of an instructor to post the mid-term grades will not be grounds for a
student academic grievance nor will it be justification for a retroactive drop as the student is presumed to be aware of current academic status.

**Grade Forgiveness Policy**

USF’s forgiveness policy permits an undergraduate to repeat a course and have the repeated grade computed in his/her GPA in place of the original grade, providing the repeat grade is posted as “D-” or higher (exception - see Honors at Graduation) and is higher than the first grade. Normally, grade forgiveness may only be applied to a specific course that a student chooses to repeat. No course taken on the S/U grade basis may have the grade forgiveness applied. Under unusual circumstances, a different but similar course may be used if the substitute course has been previously approved by the college dean and is on file in the Office of the Registrar.

The grade forgiveness policy cannot apply to any course in which the grade of “FF” has been recorded.

Any undergraduate or non-degree seeking student who wishes to implement grade forgiveness must:

1. Complete a “Grade Forgiveness Request Form” for each course to be repeated.
2. Adhere to the following conditions:
   a. A limitation of applying grade forgiveness to three USF courses with no more than one repeat per course.
   b. Once a student utilizes grade forgiveness, it cannot be rescinded.
   c. With prior approval of the college dean, a course different from a course on the approved list may be substituted in the following cases:
      (1) The substitute course is a change in prefix, number, hours, or title, but not a substantive change in content from the original course.
      (2) The substitute course replaces a course no longer offered by the institution.
   d. The repeated course must be taken under the standard grading system (A - F) and the latest grade must be posted as “D-” or higher (grades of S/U are not permitted) and be higher than the first grade.
   e. All grades remain on the transcript. The original course grade will be annotated with “E” to indicate that the course has subsequently been repeated and the original grade is not computed in the GPA.
   f. Individual colleges may have further restrictions; therefore, the student should consult with his/her college.

This policy is applicable to undergraduate and non-degree-seeking students only, and applies to 1000-to-5000-level courses. Once students have been awarded a bachelor’s degree from USF, they may not repeat a course and be forgiven the original grade, taken prior to graduation.

The policy applies only to courses taken originally at USF and repeated at USF.

**Good Standing**

USF students will be considered in Good Standing if they are currently enrolled or eligible to return to USF.

**Academic Record**

The student’s academic record shall not be changed after the student has graduated.

**Academic Probation and Academic Dismissal for Undergraduate Students**

The first time an undergraduate student’s USF grade point average (GPA) falls below a cumulative 2.00, the student will be placed on Academic Probation (AP). From the beginning of academic probation, the student must maintain at least a 2.00 GPA each term, and may not totally withdraw from any semester without cause.

Any student who withdraws from all classes after the fifth day of classes while on Academic Probation will be academically dismissed. Once on Academic Probation, academic advising prior to registration is mandatory until the student is removed from probationary status. The student may remain on Academic Probation indefinitely as long as he/she maintains a GPA of 2.00 or greater each semester. If at any time while on Academic Probation, the student’s semester GPA falls below a 2.00, the student will be academically dismissed from the University. Once academically dismissed, a student may only return to USF under the University’s Academic Renewal Policies. If academically dismissed from USF, a student may not return to USF as a non-degree seeking student.

The determination and notification of probationary status or academic dismissal will be made by the Registrar’s Office on the student’s semester grade report and academic record. A student who attends another college or university following academic dismissal will be classified as a transfer student and readmission will be based on the total record accumulated from all colleges and universities attended.

If a student is academically dismissed or falls below a 2.00 GPA from USF and subsequently receives a BA/BS from another four-year institution, that student, when accepted to the University with the post-baccalaureate status, will have his/her academic record cleared.
Academic Renewal

The University’s Academic Renewal policy allows students previously dismissed from the university or former students returning with a USF GPA below 2.00 to renew their pursuit of baccalaureate degrees without the responsibility of having to overcome the entire burden of low grades and low grade-point-averages. To facilitate this opportunity, students who qualify for Academic Renewal may, with the approval of the Academic Regulations Committee and/or the Office of Undergraduate Studies, have portions of their academic record excluded from calculation of their grade point averages (GPAs). The entire academic record, however, will continue to be reflected on their transcripts even though a selected portion will not be counted in their GPAs. Academic Renewal students are admitted with the same terms of academic probation and dismissal as other undergraduate students. Academic Renewal will only be applied to a student’s academic record one time at USF.

Academic Renewal I (AR-I)

Students who have been academically dismissed or former students returning with a USF GPA below 2.0 may petition the Academic Regulations Committee to return to the University under AR-I. A student will be considered for reinstatement to the University under Academic Renewal I after completing all requirements for the Associate of Arts degree or equivalent (including general education, and Gordon Rule requirements) at a two- or four-year college other than USF. Academic Renewal I students will enter USF as juniors and their USF grade point average will be calculated from that point forward. While AR-I is best utilized by students who have earned less than 60 credit hours, it is not restricted to those students. Students with no Associate degree and returning to the University under AR-I will likely incur excess hours and associated monetary penalty. In order to graduate following re-admission under AR-I, all degree requirements must be met, and a minimum of 30 credit hours must be taken in residence at USF. Students who are admitted under AR-I may be excluded from admission to limited access programs and will not be considered for University Honors at graduation unless they meet the criteria using all grades earned.

Academic Renewal II (AR-II)

Academic Renewal II is available to students who were academically dismissed or former students returning with a USF GPA below 2.00 and have 60 or more earned credits from USF or other institutions of higher education. These students will be considered for reinstatement to the University under Academic Renewal II, if they are able to provide convincing evidence indicating they are likely to be successful.

Generally, such students will have been engaged in successful, non-academic activities such as work or military service for at least one year or will have demonstrated recent academic success defined minimally as the completion of at least 12 semester hours with a GPA greater than or equal to 2.00, no grades below C, and no course withdrawals.

In order to be considered for readmission under AR-II, students must submit a request to the Office of Undergraduate Studies Academic Renewal Committee or equivalent USF System Institution committee, who will, in consultation with the college of the student’s intended major, make a final decision regarding the readmission. Following readmission under Academic Renewal II, students will have their prior USF GPA set to 2.00. In order to graduate, students must have a cumulative GPA of 2.00 and at least 30 USF credit hours with grades of C or higher, including a minimum of 15 USF credits earned following readmission under AR-II. Students readmitted under AR-II may be excluded from admission to limited access programs. Further, students who exercise the Academic Renewal II policy will not be considered for University Honors at graduation unless they meet the criteria using all grades earned.

College Policies for Academic Progress

Colleges may determine and implement standards of academic progress for undergraduate students (majors in the college) in addition to those established by USF. Students who do not meet the academic standards of progress set by their colleges will be placed on probation and may be disenrolled. The college dean is responsible for implementing standards of academic progress and for notifying students of their probationary or disenrollment status.

Colleges may restrict the course selections and the number of hours a student may take that do not apply toward completion of degree requirements. Students who exceed this limit may have part or all of their registration canceled.

Colleges are responsible for publicizing and students are responsible for knowing their college’s policies for academic progress.

Class Standing

A student’s class is determined by the number of credits he/she has earned without relation to his/her GPA.

Unclassified

Freshman 0 through 29 semester hours passed
Sophomore 30 through 59 semester hours passed
Junior 60 through 89 semester hours passed
Senior 90 or more semester hours passed; however, no baccalaureate degree earned at USF or elsewhere
ACADEMIC POLICIES AND PROCEDURES

UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG

Post Baccalaureate Baccalaureate degree-holder working on a second undergraduate program or degree

Admission to a College

All newly-admitted students must be advised at Orientation by an academic advisor. USF has a decentralized advising system, which means that students are able to meet directly with an advisor in the college and department of their selected major. Students who have yet to declare a major are assigned to the Transitional Advising Center for the purpose of advising until a choice of major is made. At that time, he/she will officially declare into the college containing the major department. Undeclared FTIC students must choose a major or college-based pre-major before registering for more than 36 semester hours. New transfer students with 60 or more semester hours must choose a major before registering.

Change of Major

All undergraduate students desiring to change their major should consult the advising office in the old and new college(s) of their interest.

Final Examinations

USF Policy 10-005

Examinations in academic subjects are, for most courses, an integral part of the learning process and one part of a procedure for evaluating student performance and determining grades. USF requires certain standards for the examination process in order to protect the academic integrity of courses and the best interests of both the student and the instructor.

Testing in General

In each academic course, the student is expected to undergo a meaningful testing and evaluation that will reveal the student’s intellectual growth in the subject matter covered or otherwise reflect the achievement of the course objectives. The instructor has the responsibility of maintaining a fair and impartial testing and examination procedure, has the right to define and structure the testing process, and shall not be restricted as to form, style or content of the examination. It is the policy of USF that all students facing an examination (of any type) shall have equal advance notice of the form and content of that examination. Tests and other evaluations are considered part of the learning process, and students should be given the opportunity for clear feedback about what they have or have not learned as a result of such evaluations. The University regards the routine use of all or part of the same formal examination for successive academic terms as unsound policy except when used with adequate safeguards such as a random selection of questions from a large pool. Use of an electronic device not specifically authorized by the instructor is not permitted during any examination. Such use may result in academic dishonesty or disruption of the academic process and will be handled as student violations.

Comprehensive Final Examinations

The last 6 days of the Fall and Spring semesters shall be set aside for final examinations, and any comprehensive final examination must be given during this designated period. If a segment examination is given in lieu of a comprehensive examination, the segment examination must be given in the period designated during final examination week.

The period of two hours shall be allotted for each final examination. If a student has direct conflict of scheduled examinations or has three or more examinations scheduled on the same day, the student may petition the appropriate instructor to reschedule one of the student's examinations. The "appropriate instructor" in case of examination time conflicts shall be determined in the following manner:

1. Common finals have priority over non-common finals. When two common finals conflict, the higher numbered course takes priority. A common final is one in which all the students from one course, regardless of section or time offered, take the final at the same time.

2. Examinations for graduate level courses have priority over examinations for undergraduate-level courses.

3. Within the level of the courses, undergraduate or graduate, examinations for numerically higher numbered courses have a priority over lower numbered courses. Example: A course numbered 7283 has priority over a course numbered 6924 and a course numbered 4334 has priority over a course numbered 4282.

4. If after applying items 1 through 3, there remains a conflict, priority shall be given to the course with the prefix closest to the beginning of the alphabet. Example: ART 4901 would have priority over BIO 4901.

The final examination schedule shall be published in the same manner and place as the Schedule of Classes. The instructor of the course not receiving priority shall provide for a make-up exam either in accordance with the designated make-up exam periods or at a mutually acceptable time for both the instructor and the student during the exam period.
ACADEMIC POLICIES AND PROCEDURES

UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG

Dean’s List

Full-time undergraduate students who demonstrate superior academic achievement during one semester will be honored on a “Dean’s List.” To be eligible for the Dean’s List, a student must be in a “pool” (defined hereafter) and must complete 12 hours of graded (A-F) USF courses with no incomplete grades during the semester. The “pool” consists of all students who have registered for at least 12 hours of USF courses in a given semester. The Dean’s List shall consist of the fewer of: 1) the upper 10 percent of the enrollment of the college or 2) students in the college with a USF 3.50 GPA or above (ties at the 90th percentile will be included in the honors group).

Students registered in the Office of Students with Disabilities Services whose approved accommodations include a reduced academic load are eligible by meeting the above parameters with at least nine (9) hours of graded USF courses completed in the semester and the recommendation from that office, to be confirmed by the Dean.

The dean of the college in which the student is majoring or the Dean of Undergraduate Studies for undeclared students will recognize this academic honor. Students who are eligible should contact their College Advising Office or Students with Disabilities Services for information.

Academic Regulations Committee

Certain academic regulations for the University are managed by the Academic Regulations Committee (ARC) within each college. Each college’s Academic Regulations Committee regularly reviews petitions submitted by undergraduate students. Undergraduate students must petition and secure approval from their college’s Academic Regulations Committee to return to the University after having been academically dismissed or to receive special consideration regarding an academic regulation, including late or retroactive drop of a course, late registration or late add of a course, deletion of a course, and withdrawal from a term. The ARC representatives or designees in each College meet with the student, assist with the petition process, and serve on their college’s Academic Regulations Committee. Representatives from the college ARC’s also meet formally to review ARC policies and procedures for the University.

The college Academic Regulations Committee will reexamine petitions when the student provides new and substantive information directly related to the petition or evidence that an error was made. A final ARC decision may be appealed first through the College Dean or designee, and then the Associate Dean of Undergraduate Studies.

The University has implemented a statute of limitations on student petitions for retroactive adds, drops, withdrawals, and registration. A student will be limited to two calendar years (six academic semesters/terms) for such appeals whether the student is in attendance or not.

To petition the committee, completed forms should be submitted to the respective College Advising Office for ARC review. In some cases, a consultation with an ARC representative is required. Students may contact their ARC representative for details regarding their submission. The appropriate forms may be obtained from the following Office of the Registrar at [http://www.registrar.usf.edu/data_display.php?link_type=Forms](http://www.registrar.usf.edu/data_display.php?link_type=Forms) or from their academic advising office. Students will receive notification of the committee's decision by mail/email.

STUDENT ACADEMIC GRIEVANCE PROCEDURES

**USF Policy 10-002**

I. Introduction (Purpose and Intent)

The purpose of these procedures is to provide all undergraduate and graduate students taking courses within the University of South Florida System (USF System) an opportunity for objective review of facts and events pertinent to the cause of the academic grievance. Such review will be accomplished in a collegial, non-judicial atmosphere rather than an adversarial one, and shall allow the parties involved to participate. All parties will be expected to act in a professional and civil manner. These guidelines are meant to govern all colleges (exclusive of the MD and DPT programs within the College of Medicine and the College of Pharmacy to the extent they maintain procedures and processes for issues regarding professionalism). However, USF System institutions may have unique titles and specific administrative levels. Accordingly, each institution shall determine the appropriate levels and titles for review at the time a student initiates an appeal ensuring that if it is determined the matter is an academic grievance there is at least one committee level review and recommendation to an administrator to accept or reject.

In the case of Academic Integrity (USF Regulation 3.027) violations, these Student Academic Grievance Procedures (AGP) are used in the appeal process and specific processes are in place for those appeals as described in Section IV below.

II. Terms and Guidelines

An “academic grievance” is a claim that a specific academic decision or action that affects that student’s academic record or status has violated published policies and procedures, or has been applied to the grievant in a manner different from that used for other students. Grievances may relate to such decisions as the assignment of a grade seen by the student as incorrect or the dismissal or failure of a student for his or her action(s), including violations of the professional/ethical standards in clinical or field-based programs. Academic grievances will not deal with general student complaints.
"Instructor" shall mean any classroom instructor, thesis/dissertation/directed study supervisor, or Dean or supervisor that imposes the final academic decision.

"Department Chair/Director" shall mean the academic head of a college department or the director of a program—or in all cases a "Department's designee" appointed to handle academic grievances.

"Dean" shall mean a College Dean, or the Dean of Undergraduate Studies, or the Dean of the Graduate Studies, or the equivalent as indicated—or in all cases a "Dean's designee" appointed to handle academic grievances for the unit.

"Time" shall mean "academic time," that is, periods when USF system classes are in session. The person vested with authority at the appropriate level may extend any of the time periods contained herein for good cause. Any extensions must be communicated in writing to all parties. For the purposes of this policy, each step shall be afforded three (3) weeks as a standard time limit. When a department considers a grievance according to published departmental procedures approved by the College Dean and Provost or College Dean and Regional Vice Chancellor for Academic Affairs, as pertinent, the time line specified in this academic unit’s procedures will govern the process and no additional notice of time extension is needed.

"Written communication" shall mean communication by hard copy to the recipient’s address of record or email communication using assigned USF email address.

The "burden of proof" shall be upon the student such that the student challenging the decision, action or final grade assigned has the burden of supplying evidence that proves that the instructor’s decision was incorrect, in all cases except alleged violations of academic integrity. In cases where the academic decision is based on a deficiency in or a violation of a clinical or professional standard, the deficiency or violation may be considered sufficient proof to support an academic failure or dismissal notwithstanding a student’s success in other areas of academic performance.

"Jurisdiction" is where the course (not the student’s registration status) is housed (e.g., payment of faculty salary for the course) determines the appropriate forum (institution, college or department) where the grievance will be conducted. The outcomes of the grievance should be shared with the home institution, College and Department (Program Director or Chair of the students major). In the case where there is a joint program or it is unclear where jurisdiction shall fall, the Provost (or designee) may be consulted to identify the appropriate forum for the grievance. If a student is dismissed from a course, program, college or institution, that forum may make an additional recommendation for a more comprehensive sanction across the System directly to the Provost. In the event there is a System level dismissal by the Provost, and a student wishes to appeal that system level action, the President may designate an administrative officer to review that appeal and make a final determination.

There are three member "institutions" in the USF System specifically referred to as USF, USF St. Petersburg (USFSP) and USF Sarasota-Manatee (USFSM).

Neither party shall be entitled to bring "legal representation" to any actual grievance proceeding as this is an internal review of an academic decision.

As some colleges may not have departments or some campuses may use different titles, the next level that applies to that college shall be substituted. If the incident giving rise to a grievance occurs on at USF-St. Petersburg or USF-Sarasota/Manatee, the approved policy on that campus shall govern.

III. Statement of Policy

A. Resolution Process at the Course or Department Level

1. If the grievance concerns the Chairperson/Director or other officials of the department, the student has a right to bypass the departmental process and proceed directly to the College Level.

2. The student shall first make a reasonable effort to resolve his or her grievance with the instructor concerned, with the date of the incident triggering the start of the process (i.e. the issuance of a final grade) and if the instructor determines it is feasible and may be productive, the instructor shall accommodate a reasonable request to discuss and attempt to resolve this issue.

3. If the situation cannot be resolved or a meeting with the instructor is not feasible, the student shall file a notification letter within three (3) weeks of the triggering incident to the department Chairperson/Director or the appropriate supervisor. This shall be a concise written statement of particulars and must include specific reference to the (a) published USF Policy, procedure or official published catalog and the manner in which it was allegedly violated and the decision that affected the student’s academic record or status based on a violation of that specific written USF policy, procedure or official published catalog (b) a description of the manner in which the student was treated in a substantially inequitable manner and a statement indicating the remedy sought (c) supporting documentations of all claims in the grievance and (d) the effort the student made to resolve the issue with the instructor.

4. The department Chairperson/Director must determine if the matter is an Academic Grievance (a specific Policy violated or a student treated differently than others) or if the matter is a complaint regarding the course or instructor.

5. (a) If the Chairperson/Director determines that the matter is not an Academic Grievance, the Chairperson/Director will discuss the complaint with the student and/or the faculty member and must advise
B. Resolution Process at the College Level

shall be constituted as follows:

within three weeks the Dean shall establish an Academic Grievance Committee. The membership of the Committee

1. Upon receipt of the grievance, the College Dean will review that matter to confirm that it is an Academic

2. The Committee will operate in the following manner:

6. The department Chairperson/Director shall discuss the student's statement as reference above jointly or

7. If the grievance cannot be resolved, the department Chair/Director shall notify both the student and the

a. Three (3) faculty members and two (2) students (undergraduate or graduate as appropriate to the case) shall

b. Wherever practical, the Committee shall not include members of the faculty or students of the department
directly involved with the grievance, or faculty or students of the student's major department. However, for
cases involving Clinical or Professional Standard violations, the Committee shall include, when feasible, at
least one member assigned to oversee or with expertise in, a clinical area.

c. The student or instructor may request to attend a Committee meeting to present a final statement to the

1.) Implement the recommendation of the Chairperson/Director (which can include dismissal).

2.) Reject the classification and move the matter forward as an academic grievance.

3.) Make referrals to appropriate Human Resources or employee supervisor/office for intervention

and/or to appropriate USF offices (such as Diversity and Equal Opportunity Office (DEO)).

b) If the Chairperson/Director determines the matter is an Academic Grievance, the Chairperson shall provide
a copy of the student's statement to the instructor. The instructor may file a written response to the grievance
the Process will continue.

6. The department Chairperson/Director shall discuss the student's statement as reference above jointly or
individually with the student and the instructor to see if the grievance can be resolved. If the department
maintains its own grievance procedure,* it should be applied at this point. If the grievance can be resolved,
the Chairperson/Director shall provide a statement to that effect to the student and the instructor with a copy
to the College Dean.

7. If the grievance cannot be resolved, the department Chair/Director shall notify both the student and the
instructor, informing the student of his/her right to file a written request directed back to the Chair/Director
within three weeks to advance the grievance to the College Level. Upon receipt of the student's request to
move the process to the College Level and the instructor's response to the grievance (if provided), the
Chairperson/Director shall immediately notify the College Dean of the grievance, providing copies of the
student's initiating grievance statement, any instructor's written response to the grievance, and the written
request from the student to have the process advanced to the College Level (which shall include additional
student responses and final statement). Should the student not file a written request to move the grievance to
the College Level within the prescribed time, the grievance will end.

B. Resolution Process at the College Level

1. Upon receipt of the grievance, the College Dean will review that matter to confirm that it is an Academic
Grievance. If the Dean determines the matter is not an Academic Grievance, the Dean may dismiss it (which is a
final University Decision) and notify all parties in writing, or if the Dean determines that it is an Academic Grievance,
within three weeks the Dean shall establish an Academic Grievance Committee. The membership of the Committee
shall be constituted as follows:

a. Three (3) faculty members and two (2) students (undergraduate or graduate as appropriate to the case) shall
be selected from the college by the Dean.

b. Wherever practical, the Committee shall not include members of the faculty or students of the department
directly involved with the grievance, or faculty or students of the student's major department. However, for
cases involving Clinical or Professional Standard violations, the Committee shall include, when feasible, at
least one member assigned to oversee or with expertise in, a clinical area.

c. The student or instructor may request to attend a Committee meeting to present a final statement to the
committee. The Chairperson will designate which meeting the student or instructor may attend to present any
final statement to the Committee. Only the Committee may invite additional parties such as faculty or students
from the department involved with the grievance or from the student's major department or other outside party
to provide expert or other relevant testimony in the proceedings. The student or instructor may be present
during the other's final statement and may hear the additional information provided, however, neither may be
present during the Committee's deliberations. The meeting time and place is to be set by the Committee.
Failure or an inability of the student or instructor to attend a meeting will not force the meeting to be
rescheduled or cancelled.

d. The student or instructor may be accompanied by one individual (not to act as legal counsel or to participate
in the meetings) if the student or instructor attends the meeting. The individual may be required to sign a
confidentiality agreement.

e. Students may not initiate contact regarding or relating to the grievance process or outcome with any member
of the Committee outside of this established process before, during or after the Committee review process
and any such contact may be considered a violation of the Student Code of Conduct.

2. The Committee will operate in the following manner:

a. The Committee Chairperson will be appointed by the College Dean from among the three (3) faculty members
appointed to the Committee.

The Committee Chairperson shall be responsible for scheduling meetings, overseeing the deliberations of
the committee and ensuring that full and fair consideration is provided to all parties. The Committee
Chairperson shall vote on committee decisions only when required to break a tie.

b. In Committee reviews involving Academic Integrity, the following Academic Integrity Review Process shall be
followed in addition to the other Departmental procedures, if applicable:

1. The Committee Chairperson shall notify the student and instructor of the date and time of the meeting.

2. The student and instructor may submit a list of questions to the Committee Chairperson to be answered
by the student and instructor. If submitted, the questions will be disseminated by the Committee Chairperson and the Committee Chairperson will ensure that the questions are answered in writing and submitted for review by the Committee, student, and instructor before the initial meeting.

3. Students shall be permitted to remain in the course or program during the Academic Integrity Review Process. However, if the student is in a clinical or internship setting, the student may be removed from such setting until the issue of Academic Integrity is resolved. In such cases, the program will attempt to identify an alternative educational option to the clinical or internship to enable the student to continue progressing in the program.

c. All deliberations shall be in private and held confidential by all members of the Committee. The recommendation of the Committee shall be based on their interpretation of the evidence presented to it.

d. Within three (3) weeks of the Committee appointment, the Committee Chairperson shall deliver in writing to the College Dean a report of the findings and a recommended resolution.

e. Within three (3) weeks of receipt of the Committee recommendation, the College Dean shall provide a decision in writing to all parties (the student, the instructor and the department Chair/Program Director). The Dean’s decision shall indicate whether the decision was consistent with the committee recommendation.

f. The College Dean’s decision is a final decision and appealable by the instructor or student to the University level only in the event (1) the decision of the College Dean is contrary to the recommendation of the Committee (which will be indicated in the Dean’s decision) or (2) if there is a specific and identified substantive procedural violation of these Student Academic Grievance Procedures. Such an appeal must be made in writing to the Dean of Undergraduate Studies or Graduate Studies (as appropriate) or the appropriate Chief Academic Officer or their designee within three weeks of receipt of the decision from the College Dean.

C. Resolution Process at the Institution Level

For this level of appeal process, the Provost/Executive Vice President for Academic Affairs or the Sr. Vice President for USF Health has delegated authority for academic grievance appeals at the Institution level to the Dean of Undergraduate Studies for appeals involving undergraduate courses and to the Dean of Graduate Studies for appeals involving graduate courses. For academic grievance appeals for grades assigned in courses at USFSP or USFSM, the appropriate Regional Vice Chancellor for Academic Affairs at those Institutions may delegate authority to an Academic Administrator Officer to hear the appeal at the System Level (for the purposes of this section Academic Administrator Officer, Graduate/Undergraduate Dean are referred to as “Administrator Officer”). In the event there is confusion as to the home for the course or in the registration status of the student within the USF System, the Provost may designate the jurisdiction for the appeal. The process steps are outlined below.

1. The student or the instructor may appeal at the Institution Level within three (3) weeks of the receipt of a decision made at the College Level, when (1) the decision at the College Dean Level is contrary to the recommendation of the Grievance Committee (2) a party identifies a specific substantive procedural violation in the application of the AGP. Within three weeks of receipt of the appeal of the decision, the Administrative Officer shall determine that the appeal is merited (there is a recommendation at the College Level contrary to the committee or the Administrative Officer concurs that there is cause to believe a substantive procedural violation in application of the AGP process may have occurred). If the Administrative Officer determines the appeal is not merited, the Administrative Officer shall advise the student, the instructor and the department Chair accordingly and that notice shall be a final University Decision. If the appeal is determined to be merited, the Administrative Officer (who may consult with the Faculty Senate and Student Senate) shall appoint an Appeals Committee consisting of three (3) faculty members drawn from the appropriate USF System Undergraduate Council or Graduate Council, and two (2) students, undergraduate or graduate (as appropriate and to be determined by the Administrative Officer).

2. The structure, functions and operating procedures of the Appeals Committee will be the same as those of the College Committee (i.e. chaired by one of the appointed faculty members appointed by the Administrative Officer who will not vote except in the case of a tie, having no representation from either party’s respective departments, developing a recommendation to the Administrative Officer, etc.); however, the Committee will review only the written documents from the earlier review at the College level unless the Committee invites statements from witnesses or parties. In the event any additional witness testimony is provided, the student and/or instructor will be invited to hear those additional statements and provide a short response.

3. Within three (3) weeks of the appointment, the Committee Chairperson shall deliver in writing to the Administrative Officer a report of the findings of the Committee and a recommended resolution.

4. Within three (3) weeks of receipt of the Committee recommendation, the Administrative Officer shall provide a decision in writing to all parties.

5. If the Administrative Officer’s decision is that a grade change is merited, the Administrative Officer shall initiate the grade change on the authority of the Provost and so inform all parties. In all academic grievance appeals, the Administrative Officer’s decision is a final University decision and not subject to further appeal within the USF System.

6. In those cases where the final University decision constitutes a dismissal or permanent separation from the
University, a student may seek judicial review pursuant to Florida Rule of Appellate Procedure 9.190(b)(3) by filing a petition for certiorari review with the appropriate circuit court within thirty (30) days of the final University decision. If a person seeks review with the court, a copy of the petition must also be provided to the University of South Florida Office of the General Counsel at University of South Florida, CGS 301, 4202 E. Fowler Avenue, Tampa, Florida 33620-4301.

These procedures shall take effect commencing March 7, 2013 and shall supersede all other academic grievance procedures currently in effect, with the exception of the procedures of the College of Medicine and College of Pharmacy.

Departments may develop their own formal procedures for considering grievances. Such procedures must be considered and approved by the College Dean and the Provost, and published on the Department’s web site. When such procedures exist, the Department’s examination of the grievance will unfold as specified in the procedures, however, those procedures must adhere to the three (3) week time line (with a notice to the student in writing of any need for an extension). If the Departmental process upholds the student's grievance, the Department Chair will work with the College, the student and the instructor to remedy the situation. If the Department does not uphold the grievance, the Chair will report the fact to the Dean. The student may, in such cases, request the College Level review as outlined in these USF System procedures.

DISRUPTION OF ACADEMIC PROCESS

USF Regulation 3.025

(1) Disruptive students in the academic setting hinder the educational process. Although disruptive student conduct is already prohibited by the Student Code of Conduct, the purpose of this policy is to clarify what constitutes disruptive behavior in the academic setting, what actions faculty and relevant academic officers may take in response to disruptive conduct, and the authority of the Office of Student Rights and Responsibilities or designated office handling conduct issues in Student Affairs to initiate separate disciplinary proceedings against students for disruptive conduct.

(2) Disruption of the academic process is defined as the act, words, or general conduct of a student in a classroom or other academic environment which in the reasonable estimation of the instructor: (a) directs attention away from the academic matters at hand, such as noisy distractions, persistent, disrespectful or abusive interruption of lecture, exam, academic discussion, or general University operations, or (b) presents a danger to the health, safety or well-being of self or other persons. References to classroom or academic area include all academic settings (live or online, and including field experiences) and references to Instructor include the course instructor, USF faculty, administrators, and staff. Misconduct occurring in other campus areas on University premises or which adversely affects the University community and/or the pursuit of its mission is already prohibited by the Student Code of Conduct and will be handled by those procedures.

Academic discussion that includes disagreement with the course instructor during times when the instructor permits discussion is not in itself disruptive behavior and is not prohibited.

Some disruptive students may have emotional or mental health disorders. Although such students may be considered disabled and are protected under the Rehabilitation Act/ADA, they are held to the same standards of conduct as any student.

The following applies to all campuses of the University of South Florida; however, non-substantive procedural modifications to reflect the particular circumstances of each regional campus are permitted. Information concerning these procedures is available through the Student Affairs Office at those regional campuses.

(3) Procedures for Handling Disruption of Academic Process

(a) General Guidelines for Instructor:

1. If a student is disruptive, the Instructor may ask the student to stop the disruptive behavior and/or warn the student that such disruptive behavior can result in academic and/or disciplinary action. Alleged disruptions of the academic process will be handled initially by the Instructor, who will discuss the incident with the student whenever possible. It must be noted that the Faculty Senate considers the traditional relationship between student and instructor as the primary means of settling disputes that may arise.

2. The Instructor is authorized to ask a student to leave the classroom or academic area and desist from the disruptive behavior if the Instructor deems it necessary. If the Instructor does this, s/he will send an Academic Disruption Incident Report within 48 hours simultaneously to (a.) the department chair, (b.) the Assistant/Associate Dean of the College (as determined by the College), (c) the Office of Student Rights and Responsibilities (OSRR) or the regional campus’ designated office in Student Affairs, and (d.) the student. If the situation is deemed an emergency or circumstances require more immediate action, the instructor should notify the appropriate law enforcement agency, OSRR and other authorities as soon as possible. Any filed Incident Report can, and should, be updated if new information pertinent to the situation is obtained.

3. An Instructor may also further exclude the student from the classroom or other academic area pending resolution of the matter. If the Instructor recommends exclusion (temporary or permanent) from the classroom pending resolution, the student must be informed of the exclusion before the next scheduled class (either by phone, email or in person). That notice must: (a.) inform the student of the exclusion, (b.) inform the student of his/her right to request an expedited review of the exclusion within two days to the Chair of the Department.

If such academic exclusion occurs, and if the student requests a review, Chair of the Department shall review the
exclusion within two days of the date the student requests the review and decide if the student can return to the specific class and/or any academic setting. This decision may be appealed in writing by the student within two days to the Dean of Undergraduate Studies or Graduate Studies or the institutional designee (as appropriate) for review and decision within two days. Any decision rendered at that point must be in writing and will serve as the final and binding academic decision of the university.

Each academic decision or sanction must be communicated to the Office of Students Rights and Responsibilities or the regional campus’ designated office as soon as possible.

(b) Possible Academic Sanctions and Grading Guidelines:

Authority of an Instructor and the appropriate Chair or Assistant/Associate Dean’s Office may result in any of the following sanctions:

- Warning to the student
- Voluntary withdrawal by the student from the class(es)
- Temporary exclusion and/or permanent dismissal from the instructor’s classroom or academic area, program, or college, pending an expedited appeal
- Academic sanction, including assignment of a final grade — If the final determination is a dismissal from class, the grade assigned for the class will depend on the student’s status at the time of dismissal. If the student had a passing grade in the class at the time of dismissal, a grade of “W” will be assigned for the course. If the student had a failing grade in the class at the time of dismissal, a grade of “F” will be assigned for the course. These grades will become a part of the student’s permanent record. In addition, if the academic disruption results in dismissal from more than the classroom or academic area of the incident, this grading policy may be applied in all classes affected.

(c) Documentation and Academic Disruption Incident Report:

Instructors should be aware that notes of the dates, times, witnesses and details of the incidents of disruption and the impact of the disruption on those present may be important in any future proceedings which may be necessary. Referrals to the Office of Student Rights and Responsibilities or designated office in Student Affairs require written documentation containing factual and descriptive information. The student is entitled to see this documentation.

The Academic Disruption Incident Report must be submitted either by hardcopy or scanned and sent by email to the student’s USF email address simultaneously within 48 hours to (a.) the department chair, (b.) the Assistant/Associate Dean of the College (as determined by the College), (c.) the Office of Student Rights and Responsibilities or the regional campus’ designated office in Student Affairs, and (d.) the student. The form can be downloaded from the designated website in the Academic or Student Affairs Offices and is specifically available at the following link: http://www.ugs.usf.edu/Acad_Disruption_Incident_Report_Form.pdf or completed by way of memorandum containing the following information:

- Date of report
- Student’s name
- USF Student ID number
- Instructor’s name
- Instructor’s phone number
- Instructor’s e-mail
- Title of course, course number and section
- Date/time/location of incident
- Detailed summary of the incident, including a description of the disruptive behavior
- Witnesses
- Action, if any, taken by the instructor (e.g., student warned, asked to leave the class, etc.)
- Recommended course of action and reasons for this recommendation
- Instructor’s signature

(d) Possible Disciplinary Sanctions for Conduct by the Office of Student Rights and Responsibilities:

Upon receipt of the Academic Disruption Incident Report or other academic referral for disruptive conduct, the Office of Student Rights and Responsibilities or designated office in Student Affairs may initiate the disciplinary process resulting in the imposition of any of the following sanctions in addition to any academic sanctions imposed (in section b):

- Educational sanctions to include but not limited to educational programs/classes and written assignments
- Disciplinary probation
- Provisional suspension
- Suspension
- Restriction from certain or all class(es), program, college, residence hall, or any part or all of USF campuses
- Expulsion

When an incident is being reviewed by OSRR or designated office in Student Affairs for possible disciplinary sanctions, current provisions affecting the student’s academic status (temporary or otherwise) will be
communicated by the Office of Student Rights and Responsibilities or designated office in Student Affairs to the 
Instructor and appropriate academic administrators/instructors responsible for the student’s current academic 
standing as soon as possible, but within two weeks of the reported incident. Only final disciplinary sanctions that 
affect the academic status of the student will be communicated to the Instructor(s) and appropriate academic 
administrators after the disciplinary process is complete.

(e) Resources (contact numbers are for Tampa):
University Police        (813) 974-2628
Center for Victim Advocacy and Violence Prevention    (813) 974-5756
Counseling Center       (813) 974-2831
General Counsel        (813) 974-2131
Office of Student Rights and Responsibilities    (813) 974-9443
Students with Disabilities Services      (813) 974-4309
Assistant/Associate Dean’s office in schools and colleges, department chairs

ACADEMIC INTEGRITY OF STUDENTS

USF Regulation 3.027

Academic integrity is the foundation of the University of South Florida’s commitment to the academic honesty and 
personal integrity of its University community. Academic integrity is grounded in certain fundamental values, which 
include honesty, respect and fairness. Broadly defined, academic honesty is the completion of all academic endeavors 
and claims of scholarly knowledge as representative of one’s own efforts. Knowledge and maintenance of the academic 
standards of honesty and integrity as set forth by the University are the responsibility of the entire academic community, 
including the instructional faculty, staff and students. The final decision on an academic integrity violation and related 
sanction at any USF system member institution shall affect and be applied to the academic status of the student throughout the USF System.

General Policies:
The following policies and procedures apply to all students, instructional faculty and staff who participate in 
administration of academic classes, programs and research at the University of South Florida. This regulation asserts 
fairness in that it requires notice to any student accused of a violation of academic integrity and provides a directive for 
discussion between the instructor and student to seek a fair and equitable resolution. If a fair resolution is not 
accomplished in this discussion, this regulation allows the student continued rights of due process under the academic 
grievance procedures based upon the preponderance of the evidence. The policies described below are the only 
policies and procedures that govern violations of academic integrity at the University and supersede any previous 
policies or regulations.

Violations of Academic Integrity: Undergraduate
Behaviors that violate academic integrity are listed below, and are not intended to be all inclusive.

(a) Cheating

Definition:
Cheating is using or attempting to use materials, information, notes, study aids, or other assistance in any type 
of examination or evaluation which have not been authorized by the instructor.

Clarification:
1. Students completing any type of examination or evaluation are prohibited from looking at or transmitting materials 
to another student (including electronic reproductions and transmissions) and from using external aids of any sort 
(e.g., books, notes, calculators, photographic images or conversation with others) unless the instructor has 
indicated specifically in advance that this will be allowed.
2. Students may not take examinations or evaluations in the place of other persons. Students may not allow other 
   persons to take examinations or evaluations in their places.
3. Students may not acquire unauthorized information about an examination or evaluation and may not use any 
such information improperly acquired by others.
4. Instructors, programs and departments may establish, with the approval of the colleges, additional rules for exam 
environments and behavior. Such rules must be announced in advance in a course syllabus or other advance 
written notice to students.

(b) Plagiarism

Definition:
Plagiarism is intentionally or carelessly presenting the work of another as one’s own. It includes submitting an 
assignment purporting to be the student’s original work which has wholly or in part been created by another 
person. It also includes the presentation of the work, ideas, representations, or words of another person without 
customary and proper acknowledgement of sources. Students must consult with their instructors for clarification

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in any situation in which the need for documentation is an issue, and will have plagiarized in any situation in which their work is not properly documented.

Clarification:
1. Every direct quotation must be identified by quotation marks or appropriate indentation and must be properly acknowledged by parenthetical citation in the text or in a footnote or endnote.
2. When material from another source is paraphrased or summarized in whole or in part in one's own words, that source must be acknowledged in a footnote or endnote, or by parenthetical citation in the text.
3. Information gained in reading or research that is not common professional knowledge must be acknowledged in a parenthetical citation in the text or in a footnote or endnote.
4. This prohibition includes, but is not limited to, the use of papers, reports, projects, and other such materials prepared by someone else.

(c) Fabrication, Forgery and Obstruction

Definitions:
Fabrication is the use of invented, counterfeited, altered or forged information in assignments of any type including those activities done in conjunction with academic courses that require students to be involved in out-of-classroom experiences.
Forgery is the imitating or counterfeiting of images, documents, signatures, and the like.
Obstruction is any behavior that limits the academic opportunities of other students by improperly impeding their work or their access to educational resources.

Clarification:
1. Fabricated or forged information may not be used in any laboratory experiment, report of research, or academic exercise. Invention for artistic purposes is legitimate under circumstances explicitly authorized by an instructor.
2. Students may not furnish to instructors fabricated or forged explanations of absences or of other aspects of their performance and behavior.
3. Students may not furnish, or attempt to furnish, fabricated, forged or misleading information to university officials on university records, or on records of agencies in which students are fulfilling academic assignments.
4. Students may not steal, change, or destroy another student's work. Students may not impede the work of others by the theft, defacement, mutilation or obstruction of resources so as to deprive others of their use.
5. Obstruction does not include the content of statements or arguments that are germane to a class or other educational activity.

(d) Multiple Submissions

Definition: Multiple submissions are the submissions of the same or substantially the same work for credit in two or more courses. Multiple submissions shall include the use of any prior academic effort previously submitted for academic credit at this or a different institution. Multiple submissions shall not include those situations where the prior written approval by the instructor in the current course is given to the student to use a prior academic work or endeavor.

Clarification:
1. Students may not normally submit any academic assignment, work, or endeavor in more than one course for academic credit of any sort. This will apply to submissions of the same or substantially the same work in the same semester or in different semesters.
2. Students may not normally submit the same or substantially the same work in two different classes for academic credit even if the work is being graded on different bases in the separate courses (e.g., graded for research effort and content versus grammar and spelling).
3. Students may resubmit a prior academic endeavor if there is substantial new work, research, or other appropriate additional effort. The student shall disclose the use of the prior work to the instructor and receive the instructor's permission to use it PRIOR to the submission of the current endeavor.
4. Students may submit the same or substantially the same work in two or more courses with the prior written permission of all faculty involved. Instructors will specify the expected academic effort applicable to their courses and the overall endeavor shall reflect the same or additional academic effort as if separate assignments were submitted in each course. Failure by the student to obtain the written permission of each instructor shall be considered a multiple submission.

(e) Complicity

Definition:
Complicity is assisting or attempting to assist another person in any act of academic dishonesty.

Clarification:
1. Students may not allow other students to copy from their papers during any type of examination.
2. Students may not assist other students in acts of academic dishonesty by providing material of any kind that one may have reason to believe will be misrepresented to an instructor or other university official.
3. Students may not provide substantive information about test questions or the material to be tested before a scheduled examination unless they have been specifically authorized to do so by the course instructor. This does not apply to examinations that have been administered and returned to students in previous semesters.

4. Students may not have a substitute take an examination or take an examination for someone else.

(f) Misconduct in Research and Creative Endeavors

Definition:
Misconduct in research is serious deviation from the accepted professional practices within a discipline or from the policies of the university in carrying out, reporting, or exhibiting the results of research or in publishing, exhibiting, or performing creative endeavors. It includes the fabrication or falsification of data, plagiarism, and scientific or creative misrepresentation. It does not include honest error or honest disagreement about the interpretation of data.

Clarification:
1. Students may not invent or counterfeit information.
2. Students may not report results dishonestly, whether by altering data, by improperly revising data, by selective reporting or analysis of data, or by being grossly negligent in the collecting or analysis of data.
3. Students may not represent another person’s ideas, writing or data as their own.
4. Students may not appropriate or release the ideas or data of others when such data have been shared in the expectation of confidentiality.
5. Students may not publish, exhibit, or perform work in circumstances that will mislead others. They may not misrepresent the nature of the material or its originality, and they may not add or delete the names of authors without permission.
6. Students must adhere to all federal, state, municipal, and university regulations for the protection of human and other animal subjects.
7. Students may not conceal or otherwise fail to report any misconduct involving research, professional conduct, or artistic performance of which they have knowledge.
8. Students must abide by the university’s policies on Misconduct in Research where applicable, which can be found in the University’s Policies and Procedures Manual at the General Counsel’s website.

(g) Computer Misuse

Definition:
Misuse of computers includes unethical, or illegal use of the computers of any person, institution or agency in which students are performing part of their academic program.

Clarification:
1. Students may not use the university computer system in support of any act of plagiarism.
2. Students may not monitor or tamper with another person’s electronic communications.

(h) Misuse of Intellectual Property

Definition:
Misuse of intellectual property is the illegal use of copyright materials, trademarks, trade secrets or intellectual properties.

Clarification:
Students may not violate state or federal laws concerning the fair use of copies.

Violations of Professional and Ethical Standards

Students who participate in programs that include clinical practice or field-based experiences are required to adhere to the ethical standards and/or code of conduct of the profession. Violations of the ethical standards and/or professional code of conduct may be grounds for academic dismissal and/or termination from the program. Depending on the nature and severity of the violation, the student may be dismissed from the degree program, placed on probation, or dismissed from the university. Students who wish to grieve a probation or dismissal decision that is based on violations of ethical/professional standards may do so using the Student Academic Grievance Procedures.

Violations and Sanctions for Undergraduate Students

NOTE: These policies apply to undergraduate students, even if taking graduate coursework.

Violations for undergraduate students at the University of South Florida are classified into four levels according to the nature of the infraction. For each level of violation a corresponding set of sanctions is recommended, however, specific academic programs may include additional and different sanctions. These sanctions are intended as general guidelines for the academic community with examples cited below for each level of violation. These examples are not to be considered all-inclusive.
It is recommended that the instructor forward a concise written statement describing the academic dishonesty of an incident with its particulars to the Undergraduate Dean’s Office for violations in Levels Two through Four. These records will be maintained until graduation or until they are of no further administrative value. This will enable better handling of multiple violations.

(a) Level One Violations

Level One violations may occur because of inexperience or lack of knowledge of principles of academic integrity on the part of persons committing the violation. These violations address incidents when intent is questionable and are likely to involve a small fraction of the total course work, are not extensive, and/or occur on a minor assignment.

The following are examples:
1. Working with another student on a laboratory or other homework assignment when such work is prohibited.
2. Failure to footnote or give proper acknowledgment in an extremely limited section of an assignment.

Recommended sanctions for Level One violations are listed below:
- Reduction or no credit given for the original assignment.
- An assigned paper or research project on a relevant topic.
- A make-up assignment at a more difficult level than the original assignment.
- Required attendance in a non-credit workshop or seminar on ethics or related subjects.

(b) Level Two Violations

Level Two violations are characterized by dishonesty of a more serious character or that which affects a more significant aspect or portion of the course work. The following are examples:
1. Quoting directly or paraphrasing, to a moderate extent, without acknowledging the source.
2. Submitting the same work or major portions thereof to satisfy the requirements of more than one course without permission from the instructor.
3. Using data or interpretative material for a laboratory report without acknowledging the sources or the collaborators. All contributors to preparation of data and/or to writing the report must be named.
4. Receiving assistance from others, such as research, statistical, computer programming, or field data collection help that constitutes an essential element in the undertaking without acknowledging such assistance in a paper, examination or project.

Recommended sanctions for Level Two violations are listed below:
- Failing grade for the assignment involved with the grade in the course determined in the normal manner.
- Failing grade for the course, which may be an F or FF on the internal transcript.

(c) Level Three Violations

Level Three violations are those that go beyond Level One or Two violations and that affect a major or essential portion of work done to meet course requirements, or involve premeditation, or are preceded by one or more violations at Levels One and/or Two. Examples include:
1. Copying on examinations.
2. Plagiarizing major portions of a written assignment.
3. Acting to facilitate copying during an exam.
4. Using prohibited materials, e.g., books, notes, or calculators during an examination.
5. Collaborating before an exam to develop methods of exchanging information and implementation thereof.
6. Altering examinations for the purposes of regrading.
7. Acquiring or distributing an examination from unauthorized sources prior to the examination.
8. Presenting the work of another as one’s own.
9. Using purchased term paper or other materials.
10. Removing posted or reserved material, or preventing other students from having access to it.
11. Fabricating data by inventing or deliberately altering material (this includes citing “sources” that are not, in fact, sources.
12. Using unethical or improper means of acquiring data.

Recommended sanctions for Level Three violations are listed below:
- Failing grade for the course with a designation of FF on student’s internal transcript.
- Possible suspension from the university for one semester.

(d) Level Four Violations

Level Four violations represent the most serious breaches of intellectual honesty. Examples of Level Four violations include:
1. All academic infractions committed after return from suspension for a previous academic honesty violation.
2. Infractions of academic honesty in ways similar to criminal activity (such as forging a grade form, stealing an examination from a professor or from a university office; buying an examination; or falsifying a transcript to secure entry into the University or change the record of work done at the University).
3. Having a substitute take an examination or taking an examination for someone else.
4. Fabrication of evidence, falsification of data, quoting directly or paraphrasing without acknowledging the source, and/or presenting the ideas of another as one's own in a senior thesis, within a master's thesis or doctoral dissertation, in scholarly articles submitted to refereed journals, or in other work represented as one's own as a graduate student.

5. Sabotaging another student's work through actions designed to prevent the student from successfully completing an assignment.

6. Willful violation of a canon of the ethical code of the profession for which a student is preparing, including violations of the professional/ethical standards in clinical or field-based programs.

Recommended sanctions for Level Four violations are listed below:

-The typical sanction for all Level Four violations is permanent academic dismissal from the University with the designation of "Dismissed for Academic Dishonesty" to be placed permanently on a student's external transcript.

(5) Additional Undergraduate Guidelines for Academic Dishonesty:

(a) Grade Assignment

1. An "FF" grade assigned to indicate academic dishonesty is reflected only on internal records and prevents the student from repeating the course using the Grade Forgiveness Policy. Students with any "FF" grade on record will not be eligible for honors at graduation.

2. If a student who has been accused of academic dishonesty drops the course, the student's registration in the course will be reinstated until the issue is resolved.

3. Any assigned grade may be changed to an FF, F, or other grade depending on the instructor's decision or the ultimate resolution of an academic grievance procedure. This includes any instance of academic dishonesty that is not detected by the instructor until after the student has dropped or completed the course.

4. Notification to the student of the F or FF grade for academic dishonesty and the option of appeal concerning the alleged academic dishonesty shall be the responsibility of the instructor and/or department chair. (See Student Academic Grievance Procedures.)

5. Notice that a student has been dismissed for reasons of academic dishonesty will be reflected on the student's transcript with the formal notation: Dismissed for Academic Dishonesty.

6. More serious violations of academic integrity may be referred to the Office of Students Rights and Responsibilities as a student conduct violation.

(b) Multiple Violations:

1. For the first FF recorded in an undergraduate student's USF academic record, the student will receive a letter from the Dean of Undergraduate Studies informing him or her of being placed on "Academic Dishonesty Warning" for the remainder of enrollment at USF and of appeal rights for the FF grade.

2. For the second FF recorded, the undergraduate student will be suspended for one full semester and readmitted only after writing a clear statement indicating remorse, understanding of the seriousness of the offense, and understanding of the importance of integrity in all areas, including academic work. A letter informing him or her of this action and appeal rights will be sent from the Dean of Undergraduate Studies.

3. For the third FF recorded, the undergraduate student will be permanently dismissed from the university for violations of academic integrity and with notice of that dismissal as a part of the formal record and transcript.

4. The maximum penalty for receipt of any FF grade may be permanent dismissal from the university for violations of academic integrity and with a notice of that dismissal as a part of the student's formal record and transcript.

FOUNDATIONS OF KNOWLEDGE AND LEARNING CORE CURRICULUM

General Education

An effective university education must engage students with a diversity of ideas, concepts, and ways of acquiring knowledge. The Foundations of Knowledge and Learning Core (FKL) Curriculum at the University of South Florida emphasizes inquiry as the means of developing complex intellectual skills that enable students to become critical thinkers, concerned citizens, successful professionals, and reflective people who throughout their lives are aware of, understand, and engage with the complexities and challenges that our global realities require.

The core curriculum at the University of South Florida is designed to develop baccalaureate graduates who:

- Understand symbolic, expressive, and interpretive communication systems in all of their complexities.
- Confront with an inquiring mind the natural, social, technical, and human world, and their interrelationships.
- Understand theories and methodologies for producing knowledge and evaluating information.
- Interpret and understand human diversity in a global context.
- Discover and pursue a meaningful life, as well as being a responsible steward of the human and physical environment.

The FKL General Education (36 credits) curriculum consists of six Core Areas of Knowledge and Inquiry. These Core Areas are:
1. English Composition
Students must satisfactorily complete six (6) credit hours of approved coursework (Composition I and II). A major emphasis of the University of South Florida’s General Education curriculum is to develop and refine students’ written communication skills. Composition I and II provide the foundation for academic and professional writing by emphasizing systematic organization, effective use of detail, compelling treatment of evidence, demonstration of reading skills, appropriate consideration of audience, language use (style) appropriate to discipline and audience, and construction and analysis of valid and sound arguments. In both courses, process writing is fostered through multiple drafts with careful revision and editing.

2. Fine Arts and Humanities
Students must satisfactorily complete three (3) credit hours of approved coursework in Fine Arts and six (6) credit hours of approved coursework in Humanities.

The Fine Arts core is constituted of courses from the visual arts, music, dance, theatre, and creative writing that address the creative experience; engage students in theoretical and/or experiential study of aesthetic dimensions; and address perspectives of both the artist and the public. Course content is focused upon the meaning, theories, history, products and processes of the fine arts by individuals and groups and provides students with an appreciation of how the fine arts contribute to the ways of knowing, the human experience, and contemporary life. Course options often interdisciplinary, considering the interrelationships among the disciplines of the fine arts as well as other core areas of knowledge.

The Humanities core is made up of courses that emphasize areas of inquiry in which we turn our attention to ourselves. Studies in Humanities foster students’ ability to analyze beliefs; to make sound judgments about the evidence that supports them; to communicate through language and other symbolic media; and to be creative in expressing themselves and in interpreting how others express themselves creatively. The courses explore methods and theories of criticism that apply to our creative, expressive, and communicative actions; enable students to appreciate different cultures and traditions within our own society; and increase students’ knowledge of human civilizations, past and present, and their languages, literature, art, religion, and philosophy. Courses that fulfill these goals will emphasize the use of primary texts and sources and require writing assignments in which students produce a sustained argument in continuous prose.

3. Human and Cultural Diversity in a Global Context
Students must satisfactorily complete three (3) credit hours of approved coursework in Human and Cultural Diversity in a Global Context. Courses in this core area apply principles and theories to the understanding of global processes and phenomena in an interdisciplinary manner; develop an understanding of prevailing world conditions and trends; create an awareness of the diversity of cultures and their roles in the global political economy; foster knowledge of the interrelations among global economic, political, environmental and social systems; and create an awareness of the problems confronting cultural groups, nations, and the human species as a whole. These courses afford students a basic understanding of human and cultural diversity as an integral part of the evolution of humanity; the interrelations among ecological, biological, cultural and gender diversity; the distinction between diversity as product and cause of evolution, and the politicization of diversity; and that a balanced appreciation of human and cultural diversity can be achieved only if the topic is examined historically within the context of the global system.

4. Mathematics and Quantitative Reasoning
Students must satisfactorily complete a minimum of six (6) credit hours of approved mathematics coursework OR three (3) credit hours of approved mathematics coursework and three (3) credit hours of approved coursework in quantitative reasoning. Both the mathematics courses and the quantitative reasoning courses in this core area are taught at the level of college algebra or higher and at least one course must have either a MAC or an MGF prefix. Courses that meet the requirements for quantitative reasoning are designed to instill skills sufficient for responding critically to quantitative issues in the media and public life. Typical elements in such a course include analyzing evidence; verbalizing problems into mathematical form; reading graphs; understanding logical arguments; detecting logical fallacies; understanding evidence; evaluating risks; assessing uncertainty; detecting errors in data; designing experiments; understanding creation of models; understanding validations and inferences; interpreting quantitative data; developing number sense; and developing symbol sense.

5. Natural Sciences
Students must satisfactorily complete at least six (6) credit hours of approved coursework in the Natural sciences core area with at least one course taken from each category of Physical Sciences and Life Sciences.

Approved courses in the Physical Sciences are introductory in nature and present (or have as a prerequisite a college course that presents) the fundamentals of the physical science with relevant applications and should emphasize scientific methodology by involving the student in making observations, evaluating data, and solving problems. The course may be one that is required for majors in the Physical Sciences and technology or a course designed for non-specialists. The courses in this core area will engage students with the relationship of physical science to human and
environmental issues with courses for non-science majors including a greater focus on evaluating and using scientific evidence for decision making.

Approved courses in the Life Sciences are introductory courses that present (or have as a prerequisite a college course that present) the fundamentals of biological science, including genetics/speciation/evolution, growth/differentiation, metabolism/bio-energetics and ecology/ethology and should emphasize scientific methodology by involving the student in making observations, evaluating data, and solving problems. These courses will engage students with the relationship of life science to human and environmental issues, with courses for non-science majors including a greater focus on evaluating and using scientific evidence for decision making. Introductory courses for majors in the Life Sciences that do not cover all the topics specified above may be certified for General Education credit by special permission of the General Education Council.

6. Social and Behavioral Sciences

Students must satisfactorily complete at least six (6) credit hours of approved coursework in the core area of Social and Behavioral Sciences. The courses may be interdisciplinary and need not be sequential. Approved courses in the Social Sciences area will provide opportunities to study social groups, institutions, and organizations, and their context; have a theoretical and empirical focus on individuals in relation to others and their environment; formulate basic questions and inquiry about the nature of social life through both interpretive and systematic analyses and address a broad area with concern for both methodological and substantive issues. The courses will have a theoretical and empirical approach to the study of human behavior; formulate basic questions and inquiry about the nature of human behavior through both interpretive and systematic analyses; and address a broad area with appropriate attention to both general issues and methods of the discipline.

Human Historical Context and Process Dimension

Two of the courses taken while fulfilling the other core area requirements must be approved as a Human Historical Context and Processes course. ENC1101 English Composition I am HHCP-approved and will count as one of the two required courses. See the list below for other HHCP-approved courses fulfilling this requirement.

General Education Requirements – 36 hours

- 6 English Composition (CAEC)
- 3 Fine Arts (CAFA)
- 3 Human and Cultural Diversity in a Global Context (CAGC)
- 6 Humanities (CAHU)
- 6 Mathematics (CAMA) or 3 Mathematics and 3 Quantitative Reasoning (CAQR)
- 3 Natural Sciences (Life Science) (CANL)
- 3 Natural Sciences (Physical Science) (CANP)
- 6 Social and Behavioral Sciences (CASB)

FKL Capstone Learning Experience (CLEX)

The FKL curriculum is completed with the FKL Capstone Learning Experience (CLEX), which constitutes a total of 6 credits. This will consist of one Capstone course (CPST) and one Writing Intensive course (WRIN). These courses represent an extension of the skills developed in the FKL Curriculum, and are upper-level (3000 or above) courses that must be taken at USF. It is expected that all FKL Capstone Learning Experience requirements be completed with USF-Tampa courses. Students must achieve a proficiency level of at least C- in the WRIN and CPST components in order to receive FKL Capstone Learning Experience credit.

Capstone Experience – 6 hours

- 3 Capstone (CPST)
- 3 Writing Intensive (WRN)

In fulfilling the FKL required coursework, six (6) credits must be completed in Human Historical Context and Process courses.

Students must receive a minimum grade of C- in each course that is used to fulfill any requirement in the FKL core curriculum, including the Capstone Experience. S/U grades are not acceptable for USF FKL courses. Those courses completed satisfactorily and applied to meet the FKL General Education requirements must have an overall GPA of 2.0.

Some courses are approved for more than one area of the FKL curriculum but a course may count for only one area of the FKL curriculum. For example, if a course is accepted in the Fine Arts area and the Human and Cultural Diversity in a Global Context area, it will complete only one area. Another course will need to be taken to complete the other area. Courses may be counted for both the major AND the FKL curriculum.

Please visit USF’s course inventory website to search for courses that meet FKL requirements.
Freshman English Requirement

All first-time-in-college students are required to take Freshman English (a sequential two-semester course of study) in accordance with the following conditions:

1. First-time-enrolled students (a) who do not intend to take the CLEP Freshman English Test or (b) who have been notified of failing CLEP prior to registration and who do not intend to attempt the exam a second time must take ENC 1101 and ENC 1102 sequentially. If a student fails the first course, he/she must repeat it before proceeding to the next Freshman English course. Students should normally take these courses during their freshman year, but these courses are high demand and it is possible that registration space will not always be available.

2. First-time-enrolled students (a) who have not taken CLEP prior to their arrival on campus or (b) who have failed but wish to repeat the test should attempt CLEP during their first nine (9) weeks. During this semester, they should not enroll in ENC 1101. If a student either fails or doesn’t attempt the CLEP examination during his/her first nine (9) weeks, the student normally should take ENC 1101 in the following semester. In this case, the student will normally complete the sequence by the first semester of his/her sophomore year.

These policies do not apply to first-time-enrolled students who can meet the Freshman English requirement with credit transferred from another institution or those with appropriate AP or IB English credit.

Credit by Examination

A student who feels he/she has already acquired the basic content of a course on his/her approved schedule should inquire about credit-by-examination. Some exams are offered through the College Level Examination Program (CLEP) and others may be offered within departments. Interested students should obtain additional information from their advisors or Testing Services.

Graduation Requirements

Baccalaureate Degree University Requirements

USF Regulation 3.007

University minimum requirements for graduation consist of the following: successful completion of a minimum of 120 unduplicated semester credit hours (including courses specifically approved as repeatable for credit within the System, e.g. practica, ensembles and field experiences) with an overall 2.0 GPA, including a 2.0 GPA in all coursework attempted at the USF System institution from which the degree is conferred; a transfer student must have a GPA of 2.0 or higher when combined with all work attempted at other institutions; and the writing (12 credit hours) and computation (six credit hours) course requirements of BOG Articulation Regulation 6A-10.030; earn a minimum of 48 semester hours of upper-level work (courses numbered 3000 and above); successful completion of 25 percent of the total hours required for the degree must be in courses offered by the USF System institutions, complete Liberal Arts requirements (36 credit hours); complete residency requirement; complete program requirements as determined by the college; and be recommended for graduation by the dean of the appropriate college.

The requirements must be met by every student upon whom a degree is conferred. The total number of semester hours needed to complete the baccalaureate degree depends upon the academic major field of study. No grades may be changed following graduation.

In recognition that students seeking a second Bachelor's degree have completed a rigorous program of study at a regionally accredited or comparable international institution, some graduation requirements are considered met by virtue of their previous degree. These include: Gordon Rule, Summer Enrollment, the Foreign Language Entrance Requirement, Foundation of Knowledge and Learning Core Curriculum (General Education) and the Exit Requirements. Each degree program will determine degree applicability of transfer courses for the major.

All students entering USF with fewer than 60 semester hours of credit are required to earn at least nine (9) semester hours of credit prior to graduation during one or more summer semesters in courses offered by a USF System institution or any one of the Florida State University System institutions. The University may waive the application of this rule in cases of unusual hardship to the individual. (See Summer Enrollment Requirement below.)

Degree Progression

USF Policy 10-505

The University of South Florida is committed to facilitating students through their academic progress to degree.

Undergraduates must complete the Online Graduation Application for Degree and the Online Graduating Senior Survey by the deadline with the University’s Office of the Registrar for the term in which they expect to graduate, regardless of applications in previous terms. Degree application deadlines are available in the Academic Calendar found in the Undergraduate Catalog.

Students who have completed all the requirements for their degree will be required to graduate. Exceptions may be approved by college deans or their designees for up to two additional semesters but not to exceed 10 semesters total to complete a degree (eight semesters for the major and two additional semesters) to allow students to complete
approved minors or second majors or to complete clearly defined objectives to enhance qualifications for employment or graduate and professional programs. Unless undergraduate students notify and receive approval from the Dean of Undergraduate Studies of an exception to the graduation request, USF may move the student through to graduation and confer the degree earned.

Students should be approved to pursue minors only if the minor can be completed without extending the time required for the students' initially projected graduation date. Minors are awarded only in conjunction with the receipt of a baccalaureate degree. Students are expected to apply for a minor after accumulating at least 45 credit hours but before their last semester of enrollment. Minors may be approved at the discretion of the college offering the minor in the last term of enrollment provided the student will have completed all of the remaining course requirements for the minor in that term.

Students may be approved to pursue dual degrees and second majors only if they are able to complete both programs within no more than two additional semesters but not to exceed 10 semesters total to complete a degree from the initially projected graduation date. Second majors are awarded only in conjunction with the receipt of a baccalaureate degree. Students should follow the requirements as stated on the Double Major or Dual Degree application forms and they are expected to apply for a second major or degree after accumulating at least 45 credit hours but before exceeding 96 credit hours (not counting in the latter any credit from examination or dual enrollment). The students’ program of study is delineated on the application form.

No degree will be conferred if a charge of academic dishonesty or student conduct violation is pending and the penalty could be dismissal, expulsion, failing grade or any combination of the above, until the charge is resolved and degree requirements are met.

Students are expected to graduate within the minimum number of semesters appropriate to their academic work completed at the time of their admission and the extent to which they are able to be enrolled full-time. Summer sessions are not counted as semesters for the provision of this Policy.

First time in college (FTIC) students are expected to complete a 120-credit hour degree program within 8 semesters. Degree programs with greater than 120 credit hours may require one additional semester.

High school graduates who also earned an AA degree in conjunction with their HS Diploma (HS/AA) and who enter USF as FTIC are expected to complete a 120-credit hour degree program within 4 semesters, but may be allowed up to 8 semesters based on an academic plan that is developed by the student and his/her USF advisor and approved by the student’s college within his/her first term on campus. An additional semester may be required for degree programs that have greater than 120 credit hours or lockstep course sequence(s) in the major. The expected number of semesters will be delineated on the academic plan.

Transfer students who have completed 60 credit hours or an AA degree are expected to complete a 120-credit hour degree program within 4 semesters if they have completed all prerequisites and critical tracking criteria for the program to which they are admitted at the time of their first enrollment at USF. An additional semester may be required for degree programs that have (a) greater than 120 credit hours or (b) lockstep course sequence(s) in the major and on a case-by-case basis for students who are admitted needing to complete prerequisites.

FTIC or Transfer students who have completed 120 credits or more will not be allowed to enroll in courses that are not required for degree completion. Exceptions may be approved if needed to allow the students to be enrolled full-time when an appropriate required course is not available.

For the purposes of the requirements in this policy, a semester is defined as a fall or spring semester in which a student is enrolled full-time (attempting 12 or more credit hours). Summer sessions, overseas study, and full-term withdrawals are not included in the semester count. Semesters in which a student is doing an internship or co-op experience are not included in the semester count unless a full-semester internship is part of the degree requirements.

For further information, please review the policy.

Summer Enrollment Requirement
USF Regulation 3.007

All students entering USF with fewer than 60 semester hours of credit are required to earn at least nine (9) semester hours of credit prior to graduation by attendance during one or more summer semesters in courses offered by a USF System Institution or any one of the Florida State University System institutions. The University may waive the application of this rule in cases of unusual hardship. A student who wishes to have the rule waived must complete a "Request for Waiver of Mandatory Summer Enrollment Form" available in the Office of the Registrar. After submission of the form to the Office of the Registrar, the student will be notified by mail of the action taken.
Foreign Language Graduation Requirement for B.A. Students (FLEX)

In addition to the foreign language entrance requirement all students applying for a Bachelor of Arts degree from USF must demonstrate competency in a foreign language. To demonstrate this competency, students may take either two semesters of a beginning college-level foreign language or one semester of a higher-level course and earn a letter grade of “C” (no “S” grades) or above in the appropriate level course or demonstrate equivalent competency by passing an examination. Students may fulfill this requirement by demonstrating fluency in a language other than English and proficiency in English, as demonstrated in successful coursework or examination in English. When meeting the requirement through coursework, USF languages may be selected from among the ones listed below:

**Classical Languages**
- Greek (Ancient)
- Greek (New Testament)
- Hebrew (Classical)
- Latin

**Modern Languages**
- Arabic
- Chinese
- French
- German
- Greek (Modern)
- Hebrew (Modern)
- Italian
- Japanese
- Polish
- Portuguese
- Russian
- Spanish

Students whose native/first language is taught at USF are welcome to enroll in USF foreign language courses at the level of mastery determined by the foreign language placement examination. (See Foreign Language Placement.)

**American Sign Language**

The following programs accept Sign Language Competency for the exit requirement: Africana Studies, American Studies, Anthropology, Chemistry, Communication, Communication Sciences and Disorders, Criminology, Economics, Gerontology, History, Interdisciplinary Social Sciences, Mass Communications, Political Science, Psychology, Religious Studies, Sociology, Theatre, Women’s Studies, and all programs in the College of Education. Approval needed by the student’s program/department major.

Students electing to take the examination in French, German, Italian, Portuguese, Russian, Spanish, Ancient or Modern Greek or in Latin should apply to the Director of the Department of World Languages. Students taking the examination in New Testament Greek or in Hebrew should apply to the Chairperson of Religious Studies. Students utilizing American Sign Language should apply to the Chairperson of Communication Sciences and Disorders.

**Foreign Language Placement**

Students with two or more years of study in a foreign language in high school, or with postsecondary course(s) in foreign language, or with experiential learning of a foreign language may not enroll for credit in courses in that language without first taking a placement examination administered by the Department of World Languages. Should the placement examination indicate that remedial work is required (1120-1121), the student will be allowed to enroll with the understanding that the grade eventually earned will be either an “S” or “U.”

Under no circumstances will a student who places above the first year level or who passes a higher-level course be allowed to register for or receive credit for a lower-level course in that specific language. Students to whom this regulation applies should inquire of the Department of World Languages for the placement examination.

**Academic Residence**

*USF Regulation 3.007*

Any credits transferred from a University of South Florida accredited institution must be processed as transfer credits from any regionally accredited institution.

Candidates for graduation must have completed at least 30 hours of the last 60 hours of their undergraduate credits in courses offered by the USF System Institution (home institution) from which the degree is to be conferred. Individual colleges and programs may have more stringent requirements, approved by the university, such as the number of specific courses in the major that must be completed at the institution from which a student may receive a degree.

Exceptions to the above rules may be made for students who are enrolled at other universities in USF approved exchanges, study abroad programs, co-op training programs or correspondence courses from the University of Florida. CLEP credit does not count toward academic residence.

Beginning Fall 2012, students must complete successfully at least 50 percent of the required courses in the major...
in courses offered by the USF System Institution conferring the degree. In cases of hardship or lack of course
availability, individual exceptions may be approved by the respective College Deans or designee to help ensure timely
graduation.

**Academic Major**

An academic major is a student’s primary field of study and requires a concentration of courses within an academic
discipline. Students choose their academic major based on a variety of reasons including the student’s areas of interest
and abilities, past academic achievement and in preparation for a specific profession. A student may not have a major
and a minor in the same program. Department courses used in the major may not apply to the minor.

The following terms define the types of course that are generally part of the requirements for an academic major:

- **Specialization:** The specific required courses that provide the academic concentration and
  baccalaureate identification, such as Mathematics, Accounting, Psychology, etc.

- **Supporting or Related:** Those courses that are prerequisites to the specialization courses or that support
  specialized courses, providing preparation or breadth to the area of specialization. These courses are often referred
to as college or program core courses.

- **Program Electives:** The additional courses offered by the college that enhance the major courses as
  enrichment to the general academic field of study.

- **Minor:** A smaller group of courses in a secondary field of study outside of the academic
  major. (See Academic Minor) Department courses used in the academic minor
  may not be applied to the academic major.

USF offers curricula leading to the baccalaureate degree in the below fields. The degree is indicated in parentheses
after each major code.

**Concentration**

An undergraduate concentration is a planned sequence of courses within the bachelor’s degree program that may
focus upon a particular area or field within the major or may be a combination of courses from different disciplines that
provide an interdisciplinary focus of areas of special interest to students.

Each undergraduate concentration conforms to these University requirements:

1. A concentration is a minimum of 12 semester hours; at least 8 hours of credit used to satisfy the
   requirements must be from USF courses; at least 50 percent of the required coursework must be earned
   from the institution awarding the concentration.

2. USF Coursework for a concentration must have a minimum GPA of 2.00. Some minors have higher
   minimum GPA requirements.

3. Only an undergraduate degree-seeking student at USF is eligible for a concentration.

4. A concentration can be applied for and received only in conjunction with applying for and receiving a
   baccalaureate degree except for students who have already received a baccalaureate degree from USF
   who may earn a concentration by taking additional undergraduate coursework at the university and
   applying for the concentration as a degree-seeking student.

**College of Arts and Sciences:**

**BACHELOR OF ARTS (B.A.)**

- Africana Studies (AFA)
- American Studies (AMS)
- Anthropology (ANT)
- Chemistry (CHM)
  - Biochemistry Concentration (CBY)
  - Health Professions Concentration (CHH)
- Classics (CLS)
- Communication
  - Relational Communication (SRC)
  - Organizational Communication (SOG)
- Health Communication (SHC)
- Culture and Media (SMD)
- Performance Studies (SPS)
- Public Advocacy (SAD)
- Economics (ECO)
- English
  - Creative Writing Concentration (CRW)
  - Literary Studies (LTS)
  - Professional Writing, Rhetoric and Technology (TCM)
- French (FRE)
French International Studies & Business Concentration (IFB)
Geography (GPY)
Geology (GLY)
German (GMS)
History (HTY)
Humanities (HUM)
Interdisciplinary Classical Civilizations (ICC)
Interdisciplinary Social Sciences (ISS)
International Studies (INT)
Italian (ITA)
Mass Communications
  Advertising Concentration (ADV)
  Journalism/Magazine Production Concentration (MAG)
  News Concentration (NWS)
  News Editorial Concentration (JOU)
  Programming and Production Concentration (PGM)
  Public Relations Concentration (PUR)
Mathematics (MTH)
Philosophy (PHI)
Physics (PHY)
Political Science (POL)
Psychology (PSY)
Religious Studies (REL)
Russian (RUS)
Sociology (SOC)
Spanish (SPA)
  Spanish International Studies & Business Concentration (ISB)
Statistics (STC)
Women’s and Gender Studies (WGS)

BACHELOR OF SCIENCE (B.S.)
Following is the list of Biology majors:
  Cell and Molecular Biology (CAM)
  Environmental Biology (ENB)
  Environmental Microbiology (EMB)
  Integrative Animal Biology (IAB)
  Marine Biology (MRN)
  Health Sciences (HHS)
  Microbiology (MIC)
    Chemistry:
      Chemistry (CHS)
      Biomedical Sciences (BMS)
      Medical Technology (MET)
    Interdisciplinary Natural Sciences (INS)
  Environmental Science and Policy (ESP)
  Geology (GLS)
  Information Studies (IFS)
  Physics (PHS)

College of Behavioral and Community Sciences (B.A./B.S. option):
  Behavioral Healthcare (BHC) (B.S.)
  Communication Sciences and Disorders (CSD) (B.A.)
    Deaf Studies (DST) (B.A.)
    Interpreter Training (ITT) (B.A.)
    Speech/Language/Hearing (LSH) (B.A.)
  Criminology (CCJ) (B.A.)
  Gerontology (GEY) (B.A.)
  Long Term Care Administration (LTC) (B.S.)
  Social Work (SOK) (B.S.W.)

College of Business (B.A./B.S. option):
Accounting (ACC)
Advertising (BAV)
Business Economics (ECN)
Finance (FIN)
General Business Administration (GBA)
   Accounting (GAA)
   Finance (GFI)
   International Business (GIN)
   Marketing (GMK)
   Management (GMN)
   Management Information Systems (GIS)
International Business (ITB) (B.A.)
Management Information Systems (ISM)
Management (MAN)
Marketing (MKT)

College of Education (B.A./B.S. option):
   Early Childhood Education (BEC)
   Elementary Education (BEE)
   English Education (BEN)
   Foreign Language Education (FLE)
      French (BFF) (B.A.)
      German (BFG) (B.A.)
      Italian (BFI) (B.A.)
      Russian (BFR) (B.A.)
      Spanish (BFS) (B.A.)
   Mathematics Education (BMA)
   Middle School Mathematics (BMM)
   Physical Education (PET)
   Exercise Science (BPW)
   Science Education (SCE)
      Biology (BSB)
      Chemistry (BSC)
      Middle School Science (BDS)
      Physics (BSY)
   Social Science Education (BSS)
   Exceptional Student Education (BEX) (B.S.)

College of Engineering:
   Chemical Engineering (ECH) (B.S.C.H.)
   Civil Engineering (ECE) (B.S.C.E.)
   Computer Engineering (ECP) (B.S.C.P.)
   Computer Science (BCS) (B.S.C.S.)
   Electrical Engineering (EEL) (B.S.E.E.)
   Engineering, General (EGU) (B.S.E.)
   Industrial Engineering (EIE) (B.S.I.E.)
   Information Technology (ITC)
   Mechanical Engineering (EME) (B.S.M.E.)

College of Medicine (B.S.):
   Athletic Training (BAT)

College of Nursing (B.S.):
   Nursing (NUR)
   Nursing (Registered Nurse) (NRN)
   Nursing (Accelerated from bachelor degrees in other fields) (SBN)

College of Public Health (B.S.):
   Public Health (PUB)
College of The Arts:
Art History (AHM) (B.A.)
Dance (DAN) (B.F.A.)
  Ballet (DAB) (B.F.A.)
  Modern (DAM) (B.F.A.)
Dance (DAN) (B.A.)
  Dance Studies (DAS) (B.A.)
Music (MUS) (B.M.)
  Composition (MUC) (B.M.)
  Jazz Studies (MJP) (B.M.)
  Performance (MPF) (B.M.)
Music Education (MUE) (B.S.)
Music Studies (MSU) (B.A.)
Studio Art (SBF) (B.F.A.)
Studio Art (SBA) (B.A.)
Theatre (TAR) (B.A.)
  Arts (TAA) (B.A.)
  Design (TAD) (B.A.)
  Performance (TAP) (B.A.)

Undergraduate Studies
Applied Science (APS) (B.S.A.S.)
  Behavioral Healthcare (ABH) (B.S.A.S.)
  Criminal Justice (ACJ) (B.S.A.S.)
  Deaf Studies (ADS) (B.S.A.S.)
  Environmental Policy and Management (AEP) (B.S.A.S.)
  Gerontology (AGR) (B.S.A.S.)
  Information Studies: Information Architecture (AIA) (B.S.A.S.)
  Information Technology (ATC) (B.S.A.S.)
  Leadership Studies (ALS) (B.S.A.S.)
  Public Administration (APU) (B.S.A.S.)
  Public Health (APL) (B.S.A.S.)
  Urban Studies (AUR) (B.S.A.S.)

Innovative Education:
General Studies (BGS) (B.G.S.)
  Behavioral Healthcare (GBH) (B.G.S.)
  Business (GBU) (B.G.S.)
  Criminal Justice (ACJ) (B.G.S.)
  Environmental Policy and Management (GEM) (B.G.S.)
  Gerontology (GAS) (B.G.S.)
  Information Studies: Information Architecture (GFA) (B.G.S.)
  Information Technology (GIT) (B.G.S.)
  Leadership Studies (GSL) (B.G.S.)
  Public Administration (GPA) (B.G.S.)
  Public Health (GPU) (B.G.S.)
  Urban Studies (GUS) (B.G.S.)
  Women’s and Gender Studies (GWS) (B.G.S.)

The Honors College:
  Individualized Interdisciplinary Honors Research/Comparative Studies (Limited Access Second Major) (HON) (B.A.)

Academic Minor

An academic minor is a complement to a bachelor’s degree program in a particular field, leading to specific educational goals. It requires approximately one-half the upper-level credits required for a major in that field. Minors are optional unless required by a specific major. A student may declare a minor at any point during the first term of enrollment and thereafter as a degree-seeking student, but is expected to declare it as early as possible. Students should obtain prior approval with the specific requirements and forms from the College and department in which the minor is offered. The department may require the same admission or retention standards as required for the major. Each academic minor conforms to these University requirements:
1. A minor is a minimum of 12 semester hours; at least 8 semester hours of credit used to satisfy the requirements must be from USF courses; at least 50 percent of the required coursework must be earned from the institution awarding the minor.
2. A student may not have a major and a minor in the same program. Department courses used in the major may not apply to the minor.
3. USF coursework for a minor must have a minimum GPA of 2.00. Some minors have higher minimum GPA requirements.
4. Only an undergraduate degree-seeking student at USF is eligible for a minor.
5. A minor can be applied for and received only in conjunction with applying for and receiving a baccalaureate degree except for students who have already received a baccalaureate degree from USF who may earn certification of a minor by taking additional undergraduate coursework at the university and applying for the minor as a degree-seeking student.

USF offers curricula leading to an academic minor in the following fields:

**College of Arts and Sciences:**
- Africana Studies (AFA)
- American Studies (AMS)
- Anthropology (ANT)
- Astronomy (AST)
- Biomedical Physics (BPH)
- Chemistry (CHM)
- Chinese (CHN)
- Classics (CLS)
- Communication (SPE)
- Economics (ECO)
- English-Creative Writing (ENW)
- English-Literary Studies (ENG)
- English-Professional Writing, Rhetoric and Technology (ENT)
- Environmental Policy (ESP)
- Film and New Media Studies (FNM)
- French (FRE)
- Geography (GPY)
- Geology (GLY)
- German Studies (GMS)
- History (HTY)
- Humanities (HUM)
- Interdisciplinary Classic Civilizations (ICC)
- International Studies (INT)
- Italian (ITA)
- Mass Communications (COM)
- Mathematics (MTH)
- Microbiology (MIC)
- Modern Greek (GRK)
- Philosophy (PHI)
- Physics (PHY)
- Political Science (POL)
- Psychology (PSY)
- Public Administration (PAN)
- Religious Studies (REL)
- Russian (RUS)
- Sociology (SOC)
- Spanish (SPA)
- Women’s and Gender Studies (WGS)

**College of Behavioral and Community Sciences:**
- American Sign Language (ASL)
- Applied Behavior Analysis (ABA)
- Behavioral Healthcare (BHC)
- Criminology (CCJ)
- Gerontology (GEY)
Undergraduate Certificate

An undergraduate certificate is a supplement to the bachelor’s degree program and may consist of courses that are part of a degree program or distinct courses that are outside of the degree program. Certificates normally require study in more than one field, often in a planned sequence of courses leading to specific educational goals. Certificates are optional and students are urged to declare a certificate as early as possible. Students should obtain prior approval with the specific requirements and forms from the college and department in which the certificate is offered. Certificates may be certified at any time during the student’s undergraduate career.

Each undergraduate certificate conforms to these University requirements:

1. Students must be admitted as undergraduate degree seeking or non-degree seeking to be eligible to receive an undergraduate certificate.
2. A minimum of 12 semester hours of credit used to satisfy the requirements of a certificate must be from USF courses; at least 50 percent of the required coursework must be earned from the institution awarding the certificate.
3. USF coursework for a certificate must have a minimum GPA of 2.00. Some undergraduate certificates have higher minimum GPA requirements.

USF offers curricula leading to an undergraduate certificate in the following areas:

College of Arts and Sciences:
- Africana Literatures
- Asian Studies
- Film Studies
Food Studies
India Studies
Italian Studies
Latin & Caribbean Studies
Modern Western European Studies
Russian Studies
Urban Studies

College of Behavioral and Community Sciences:
Undergraduate Research in Behavioral & Community Sciences

College of Business
National & Competitive Intelligence

College of Engineering:
Specialization in Information Security
Specialization in Web Development

College of Public Health:
Community Engaged Homeland Security & Emergency Management
Public Health

Academic Learning Compacts
In accordance with the Board of Governors Policy Guideline PG 05.02.15 each baccalaureate program develops and implements “Academic Learning Compacts.” The Academic Learning Compacts include concise statements of what program graduates will know and be able to do (i.e., the expected core student learning outcomes). Each Academic Learning Compacts includes the following components:

- Identifies the expected core student learning outcomes for program graduates in the areas of:
  - Content/discipline knowledge and skills
  - Communication skills
  - Critical Thinking skills

Student’s Choice of Catalog
In order to graduate from USF, each degree-seeking student must meet all of the graduation requirements specified in the USF catalog of his/her choice. A degree-seeking student may choose any USF catalog published during his/her continuous enrollment. Students who have transferred from one Florida public institution to another are affected by the following Department of Education policies:

Graduation requirements in effect at the receiving SUS institution at the time a student enrolls at a Florida public institution of higher learning shall apply to that student in the same manner that graduation requirements apply to its native students provided the student has had continuous enrollment as defined in the SUS institution’s catalog.

Students who transfer from one public institution to another in the State University and Florida College Systems within two (2) years of their matriculation and seek admittance to the upper division come under the common prerequisite requirements of their entering catalog. For example, a student who enters a Florida community college in Fall 1999 and seeks admittance to an upper division major for Fall 2001 must meet the major common prerequisites listed in the 1999-2000 Common Prerequisite Manual. However, if the student does not seek admittance within two years of his or her matriculation, he or she will come under the manual dated two years prior to transfer. For example, if the student enters in Fall 1999, but does not transfer until Fall 2005, he or she must meet the requirements of the 2003-2004 Manual.

Continuous Enrollment
At USF, “continuous enrollment” is defined as enrolling as a degree seeking student at least one term each twelve month period. Therefore, students cannot choose a USF catalog published prior to or during an academic year in which they did not maintain continuous enrollment. (Each catalog is considered to be published during the academic year printed on the title page.)

If the student cannot meet all of the graduation requirements specified in the catalog of his/her choice due to decisions and changes by the University in policy matter, course offering, etc., appropriate substitutions will be
ACADEMIC POLICIES AND PROCEDURES

determined by the chairperson of the department or program of the student’s major.

USF’s policies are subject to change and apply to all students regardless of their choice of catalog. If the student’s graduation requirements are affected by changes in University policies, appropriate arrangements will be made to preclude penalization of the student.

Continuously Enrolled Degree Seeking Student

The Office of Admissions will determine the acceptability of transfer credits for continuing, degree-seeking students who take courses at regionally-accredited institutions. However, PRIOR WRITTEN APPROVAL MUST BE OBTAINED from the college of the student’s major if these credits are to be applicable to the USF degree program. A properly-executed Transient Student Form or Cross Enrollment Form should be used for this purpose.

Repeat Course Work

The hours for a course that has been repeated, including courses transferred from other institutions, may be counted only once toward the minimum 120 semester hours of credit (earned hours) required for graduation. All credit hours (except when grade forgiveness is applied) are calculated in the GPA. (See Repeat Course Surcharges.)

Double Undergraduate Major

Students may elect to graduate with two majors. In that event, they must apply independently to each department and college and be assigned an advisor in each discipline. While this independent notification to each department may begin at entry into the University, the student will need to formally declare the double majors to Undergraduate Studies after earning at least 45 credit hours but no more than 95 hours (excluding accelerated credits). The student must meet all requirements of each major separately and must be certified for graduation by each college within 10 semesters of the degree starting date. In declaring a second major, the student will be charged the Excess Hour Surcharge required by the state for excess hours beyond the official limit (10 percent of those allowed for the first major). Upon completion of the second major, the surcharge will be refunded for those excess hours applied to the second major that do not exceed the maximum limit. Both majors will be awarded in the same term at the completion of the degree.

Second Undergraduate Major

A student who wishes to work toward a second major, after receipt of a baccalaureate degree, must apply as a degree-seeking student prior to the end of the semester in which the student will be graduating and meet the major requirements as determined by the college. (Exceptions to this rule are students who have been previously accepted for a “Double Undergraduate Major” but graduated with only one major.) After acceptance by the appropriate college and proof of completion, the student’s “permanent academic record” will be posted accordingly.*

A student who wishes to apply for a second major, but applies after the end of the semester in which the student graduated, must apply as a degree-seeking student and will be classified as a post-baccalaureate student. **Note that those students who complete the requirements for a second major must be aware that they will not receive a second degree.

Two Degrees (USF Students)

A student at USF may receive two baccalaureate degrees provided he/she meets University graduation requirements for both degrees. In addition to the minimum 120 semester hours that apply toward the first degree, the student must also earn at least a minimum of 30 semester hours in USF undergraduate courses that will apply toward the second degree. The student must also meet the requirements of the college awarding the degree and the residency requirement as degree-seeking students of the home institution within 10 semesters of the first degree’s starting date. While independent notification of intent to earn dual degrees may be made to each department or college at entry into the university, the student will need to formally declare the dual degrees to Undergraduate Studies after earning at least 45 credit hours but no more than 95 hours (excluding accelerated credits). In those cases when two different USF colleges are conferring degrees, the student should maintain status as a continuing student and both colleges should be informed of the student’s progress toward degree completion before the student applies for graduation from either college.

In declaring a second degree, the student will be charged the Excess Hour Surcharge required by the state for excess hours beyond the official limit (10 percent of those allowed for the first degree). Upon completion of both degrees, the surcharge will be refunded for those excess hours applied to the second degree that do not exceed the maximum limit (150 hours maximum for completion). Both degrees will be awarded in the same term at the completion of the degrees.
Second Baccalaureate Degree
(Transfer Students)

A student already graduated from an accredited four-year institution must earn a minimum of an additional 30 semester hours of USF undergraduate courses to apply toward his/her second baccalaureate degree. Students must also meet the University’s regular graduation requirements, as well as the requirements of the college awarding the degree and the residency requirements.

Availability of a Baccalaureate Degree for Students Enrolled in or Graduated from a Five-Year Master’s Program

A student may enroll in a baccalaureate degree program while enrolled in or after graduation from a five-year master’s degree program. In consultation with an advisor in the five-year program and an advisor in the baccalaureate-level program and with the approval of the college dean(s) offering the program(s), the student is required to complete the following:

a. Satisfy degree requirements for the five-year master’s program.
b. Satisfy requirements for the baccalaureate-level program.

Application for Graduation

In order to graduate, a student must submit an application for the bachelor’s degree to the Office of the Registrar. The application must be submitted in the term of expected graduation by the deadline noted in the academic calendar for the student to be assured of availability of academic regalia for participation in the graduation ceremony, certification of graduation by the end of the term, inclusion of name in the graduation bulletin, and timely order of the diploma. Students who submit the application for graduation after the posted deadline, but prior to the last day of classes for the academic term, and who are determined to have met all graduation requirements in that semester may have their graduation posted that term. Students must note that when applying late, their application may not be processed before the next term’s registration period if they have not met all degree requirements. Applications received after the last day of classes will result in the graduation being posted at the end of the following academic term.

If a student applies for graduation and is not approved, a new application for degree must be submitted for the new term. In order for the degree statement to appear on a student’s academic record, the student must file the aforementioned application whether or not participation in the commencement ceremony is desired.

The application for the bachelor’s degree is available from the student’s college advising office. The application for an Associate in Arts degree is available from the Transitional Advising Center in Undergraduate Studies. The application must first be certified (signed or stamped in the section, “Office Use Only”) by the student’s college (Transitional Advising Center for the A.A. certificate). The college retains one copy, and the student must submit the remaining copies to the Office of the Registrar prior to the graduation application deadline. Inquiries concerning approval or denial of graduation should be made to the appropriate college or to the Transational Advising Center in Undergraduate Studies.

It is the student’s responsibility to clear all “I” grades (incompletes) in courses required for graduation and to provide official transcripts of all transferred course work needed for graduation at least 3 weeks prior to the end of the term in which he/she expects to graduate.

A student applying for a second undergraduate major must do so within the same deadline set for applying for a degree.

A student applying for a minor must:
1. File a separate request for certification for the minor in the department of the minor during the semester of graduation;
2. Apply for the minor on the “Application for Degree,” listing both the minor and college responsible for the minor on the application; and
3. Have no “I” grade in required courses.

For purposes of honors recognition at the ceremony, students must have a 3.50 GPA before the term in which they plan to graduate to have honors recognized publicly at the commencement ceremony.

Note: Some colleges ask students to file applications as early as the semester before anticipated graduation to help ensure that they will meet all graduation requirements in the semester in which they intend to graduate. Although applications will be accepted until the last day of classes for the semester of graduation, students applying late will jeopardize their chances of having met all requirements and may delay their graduation as a result.

Posthumous Degrees or Degrees in Memoriam

The University may award a posthumous baccalaureate, master’s or doctoral (and medical) degree to a student who was in good standing at the University at the time of his or her death and who had completed all substantive requirements for the degree. The University may also award baccalaureate, master’s, doctoral and medical degrees in
memoriam to a student who was in good standing at the University at the time of his or her death.

To award a non-thesis degree, the student would need to have completed all courses required for the degree. Courses required for the degree, in which the student is enrolled at the time of his or her death, must have been completed to the satisfaction of the faculty so that passing grades might be posted. All other requirements (e.g., grade point average, and other tests) must have been satisfied as well.

To award a thesis degree, all courses must be completed as described above and the thesis must be sufficiently complete to the satisfaction of the faculty so that certification of completion may be posted to the student’s record.

Procedures for Award of Posthumous Degrees or Degrees in Memoriam

The chairperson of a department, on his or her own initiative or upon the request of the family of the student, may recommend a posthumous degree, or a degree in memoriam, by forwarding the recommendation to the respective Dean of the college. If approved by the Dean, the recommendation, with supporting documentation, will be forwarded to the Dean of Undergraduate Studies or the Dean of Graduate Studies (respective to the degree type) for approval. If the Dean approves the recommendation, the Office of the Registrar will be notified and the posthumous degree may be awarded at the next commencement ceremony. Posthumous degrees and degrees in memoriam may be presented to the student’s family in an appropriate setting, which may include the memoriam ceremony held in fall and spring semester.

Diplomas for posthumous degrees will be identical to other degrees awarded in the same colleges and majors. Diplomas for Degrees in Memoriam will be prepared to read “Bachelor of Arts in Memoriam, Bachelor of Science in Memoriam,” “Master of Arts in Memoriam,” etc., depending upon the degree the student was pursuing at the time of his or her death. Undergraduate students who have not chosen a major at the time of death will be awarded the “Bachelor of Arts in Memoriam.”

Honors at Graduation

To be considered for honors at graduation, a baccalaureate candidate must have completed at least 40 credits of graded upper level work at USF and have earned a grade point average of 3.50 or higher for all graded coursework attempted at USF. For those students in programs requiring multiple clinical experiences (such as Nursing and Education), a baccalaureate candidate must have completed at least 30 hours of graded upper level coursework and have earned a grade point average of 3.5 or higher for all graded coursework attempted at USF. In addition, to be eligible for honors, transfer students and USF students who have postsecondary work elsewhere must have an overall GPA of 3.50 or higher counting all USF courses as well as all transferable work attempted at other institutions. The forgiveness policy at USF or other institutions and plus/minus grades awarded at other institutions will not be applicable in computing the GPA for honors. In addition, students with a record of academic dishonesty appearing on any transcripts may graduate from a degree program after meeting all degree requirements, but will not be eligible for honors at graduation, including the honor of graduating from the Honors College or a departmental honors program.

Candidates with a USF GPA of 3.50 or higher and an overall GPA of 3.50 but below 3.70 shall receive a diploma designation of cum laude (with honor).

Candidates with a USF GPA of 3.50 or higher and an overall GPA of 3.70 but below 3.90 shall receive a diploma designation of magna cum laude (with high honor).

Candidates with a USF GPA of 3.50 or higher and an overall GPA of 3.90 or above shall receive a diploma designation of summa cum laude (with highest honor).

In addition, each dean has the option to select on the basis of exceptional achievement 1% of the college’s graduates or 1 student per semester for graduating with distinction.

Undergraduate candidates with an overall GPA of 4.00 are recognized at the commencement ceremony as King O’Neal Scholars. They will be recognized during the ceremony and presented with a certificate and medallion from the Alumni Association.

For purposes of honors recognition at the commencement ceremony, students must have a 3.50 GPA before the term in which they plan to graduate to have honors recognized publicly at the commencement ceremony.

NOTE: The GPA is not rounded up when determining honors at graduation (e.g., 3.69 is not the same as 3.70). The forgiveness policy at USF and other institutions and plus/minus grades awarded at other institutions will not be applicable in computing the GPA for honors. In addition, students with a record of academic dishonesty appearing on any transcript(s) will not be eligible for honors at graduation.

Commencement

Commencement ceremonies are held at the end of each academic semester. Ceremonies are held three times a year in Tampa (Spring, Summer and Fall) with multiple ceremonies hosted in a day.

Students register to participate in a Commencement ceremony through the Commencement website, http://usfweb2.usf.edu/commencement/. Registration for that term’s ceremony is open on the first day of classes for that term.

Deadline for ceremony registration varies by campus. Registration is open to all students; however, doctoral
candidates cannot participate in Commencement exercises until all requirements for such degrees have been fulfilled.

To apply to graduate (submit your application to graduate to receive your diploma), contact the Office of the Registrar. Students do not receive their diploma at the ceremony. Information regarding the ceremony will be mailed to students who apply to graduate by the end of the fourth week of the term. The list of student names published in the Commencement program is also taken from the list of students who applied to graduate by the end of the fourth week of the term. Students who have elected total privacy on their records will not have their names published in the Commencement program.

Commencement is a most dignified ceremony fitting for the accomplishment you have achieved. Academic regalia is required. Other than the cost of regalia, there is no fee to participate in a Commencement ceremony for graduates and their families and guests.

Additional information about Commencement can be found at [http://usfweb2.usf.edu/commencement](http://usfweb2.usf.edu/commencement) or by calling (813) 974-1816.

### Certification Requirements

**Associate in Arts**

**USF Regulation 3.019**

Upon the student’s successful completion of the minimum requirements for the Associate in Arts Certificate, the University will present the student who has properly made application with an appropriate certificate.

1. To receive the Associate in Arts, the student must complete 60 semester hours of university credit; at least twenty (20) of the last thirty (30) credit hours or a total of thirty-six (36) credit hours must be completed in residence at the USF home institution; the minimum overall grade point average (USF GPA and transfer GPA) must be 2.0 based on work attempted at USF and transfer work accepted and evaluated by the USF Office of Admissions; and the General Education Requirements of USF must be satisfied. Physical Education and military science credits do not count within the 60 semester hours toward the Associate in Arts. In addition the student must have fulfilled the writing and computation course requirements of the Florida Board of Governors’ Regulation 6.017 prior to receiving the Associate in Arts Certificate.

2. Application Procedure for the Associate in Arts Certificate. The Application for an Associate in Arts Certificate can be obtained from the Transitional Advising Center prior to the application deadline. The deadline to apply for a degree/certificate in each semester is stated in the Academic Calendar in the catalog.

3. The Associate in Arts certificate must be awarded at least one term prior to the term that the student becomes eligible for the baccalaureate degree.

4. Final processing for the Associate in Arts will be done after grades are processed at the end of the semester for which the student applied. All work, including transfer work, taken in that semester will be evaluated with respect to the requirements for the Associate in Arts Certificate.

5. Any incomplete grades shown on the permanent record of an Associate in Arts applicant at the time grades are processed will be treated as an F in the calculation of grade point average.

6. The General Education Requirements will be based on the approved University policy in effect in the catalog year the student chooses according to the University policy regarding the choice of catalog from the student’s USF home institution. The consideration of whether or not General Education Requirements are met will be made without consideration of the student’s choice of major at the time he/she applies.

7. Residence credit will be broadly defined to include USF sponsored student exchange programs and the University of Florida Correspondence Division. Where the grades from these institutions, except those earned through the University of Florida Correspondence Division, are recorded on the permanent record at the USF home institution, and included in the grade point average calculation, they will also be counted in the student’s grade point average as work attempted at the USF home institution for the Associate in Arts Certificate.

8. An applicant who has not been enrolled at a USF institution for three semesters may be contacted to ascertain whether or not that applicant meets the residency requirements.

9. In approving any application for the Associate in Arts Certificate, satisfactory/unsatisfactory grades will be accepted according to the approved University policy in effect during the terms of the student’s enrollment without regard for the student’s declared major. Students must be aware that if they have taken any courses on a satisfactory/unsatisfactory basis where such grades are not acceptable by the college of the major, the students may be required to repeat particular courses for a traditional letter grade or take additional courses for a traditional letter grade to meet the college requirements.

10. All USF colleges with undergraduate programs will accept the Associate in Arts from USF. That is, the student will be placed at least, at the junior level and will be considered to have met the University’s General Education Requirements. The applicability of the courses taken by the student toward his/her major program will be determined by the college of the student’s major. Similarly, any special requirements for a student’s professional certification (e.g., Education and Engineering) are not necessarily met by the Associate in Arts certificate, but could be included as part of the General Education Requirements. Thus, students should check
with their colleges concerning meeting any special requirements in an efficient manner.

11. The awarding of the Associate in Arts is posted on the permanent record but does not alter the calculation of the grade point average nor does it interrupt the accumulation of the student’s record.

12. Students who follow a baccalaureate degree program as recommended by a college will not necessarily be eligible for the Associate in Arts certificate prior to the completion of 90 semester hours.
USF/FLORIDA COLLEGE SYSTEM - Cross Enrollment/Transient Student

A transient student form is used when a student wishes to take courses at an institution outside of the University of South Florida System. Students wishing to take courses at public institutions in Florida must complete the Transient Form online. This form can be used to request approval for courses taken as cross enrollment (enrollment at USF and the other institution) or transient enrollment (courses taken only at another institution). Once the form is completed, it will be automatically sent within three business days to your advisor/college office and to the Office of the Registrar. The form is typically reviewed within 24-48 hours.

Students interested in taking courses at a private or out-of-state institution must complete the Transient Form located on the Registrar’s website at http://www.registrar.usf.edu/forms/TransientStudentForm2009-02-11_15_02_38.pdf following the instructions on the form.

Please keep in mind that transient or cross enrollment in courses that are available in the USF system during Fall and Spring semesters will only be approved in very extenuating circumstances. However, transient enrollment in the Summer will be approved if the student resides and the courses are offered at institutions outside of Pinellas, Pasco and Hillsborough counties. First term, first time in college freshmen are not eligible for USF awarded financial aid if granted transient student status.


USF Testing Services

Location/Phone: SVC 2060; (813) 974-2741
Office Hours: 7:30 a.m. – 4:30pm. Monday through Friday – varied Saturdays
Web address: http://www.uc.usf.edu/testing

The Office of Testing Services serves five principal functions:

1. Admissions, Academic and Placement Testing: Tests required for admission to colleges, graduate and professional schools as well as many other special tests are administered by this office. Examples are the ACT, SAT, CPT, GRE, LSAT, EDT, PRAXIS and TOEFL.
2. Credit-By-Examination: The College Level Examination Program (CLEP) is administered through this office.
3. Testing for professional certification.
4. Distance Learning Course Proctoring (DLCP): As a member of the Consortium of College Testing Centers (CCTC), the University of South Florida – Testing Services organization provides proctoring services for students taking distance learning courses from other colleges or institutions. We are able to proctor paper and most computerized exams, depending upon software requirements. We provide high quality, security, reliability and convenience for all stakeholders – candidate, sponsor, and organization.
5. USF Online Course Exam Proctoring (OCEP): USF Testing Services administers an exam proctoring system to accommodate students enrolled in specified online courses.

College Level Examination Program (CLEP)

USF allows students to receive up to 45 semester hours of credit towards the baccalaureate degree upon successful completion of Advanced Placement (AP), Advanced International Certificate of Education Program (AICE), International Baccalaureate (IB), General and Subject College Level Examination Program (CLEP), DANTES, Caribbean Advanced Proficiency Exams (CAPE), German Abitur and Excelsior College examinations. Performance levels necessary to achieve credit have been established at a common level for all universities and community colleges in the State system. For information on credit-by-exam equivalents, please visit the following url: http://www.ugs.usf.edu/student/crbyexam/exams.cfm. Credit earned through one examination program may not be duplicated by another examination or course.

The following limitations should be recognized: CLEP credit will not satisfy USF’s residency requirement; and Credit for the General Natural Science examination will be granted for non-majors only.

Certain General and Subject CLEP Examinations noted in the table found at http://www.uc.usf.edu/testing/ may apply to the General Education Liberal Arts Requirements. Some programs do not award credit toward the degree for certain CLEP examinations, and certain graduate or professional schools such as law, medicine and engineering may not grant equal recognition to students with extensive examination credits. An academic advisor should be consulted to ascertain the applicability of a specific CLEP examination toward a student’s degree requirements and the advisability of taking the examinations in a student’s specific situation.

The CLEP General and Subject Examinations are administered at USF Testing Services schedules are available in USF Testing Services (SVC 2060). Prior registration is required. For information regarding CLEP examinations, please go to the USF Testing Services web site http://www.uc.usf.edu/testing/.

Independent Study

Undergraduate students wishing to take a course by independent study must contact the instructor of the course for permission. The instructor specifies the requirements to be completed by the student including tests, periodic class
attendance, term papers, etc. Not all courses in the University may be taken by independent study. The respective colleges have jurisdiction in the determination of which courses may be taken in this manner. The regular grading system applies to all independent study students. Grades earned by independent study have the same status as those acquired through regular class attendance. Students taking a course by independent study must register for the specific course section in the regular manner.

**Community Experiential Learning Program**

*Location/Phone:* NES 305; (813) 974-8452

The Community Experiential Learning (CEL) Program offers students the opportunity to explore the relationship between their classroom learning and the broader community. With faculty guidance, students design their own community experiences and receive between one and four academic credit(s) upon completion. Students may choose to work as an intern with a community organization/agency or to explore a community issue through independent research. The community can be as close as a neighborhood just beyond the campus or on the other side of the world. Students may participate in the CEL Program anytime during their academic career. Good standing at the University and a 2.0 GPA is required for acceptance into the Program. CEL courses are offered throughout the entire year. Ideally students should plan their CEL projects during the term prior to their implementation, but they can be added at any time during the term.

**State University System Correspondence Courses - Flexible Learning**

The University of Florida’s Division of Continuing Education’s (DCE) administers all correspondence instruction for Florida’s State University System (SUS). Correspondence study at the University of Florida is a consortium of universities within the State University System of Florida that offers high school, undergraduate and graduate courses for credit through interactive, self-directed study. DCE provides courses for students who wish to begin college programs early, take courses with conflicting times or closed sections, meet prerequisites, pursue professional development, or personal enrichment. DCE courses’ content and requirements parallel their on-campus counterparts.

Enrollment in all courses is possible at any time of the year; however, prior approval of an advisor is needed if a course is to be used toward a diploma or a degree. USF considers independent study by correspondence as resident credit. Grades are not transferable. Exception: grades for courses taken by Cooperative Education students while on a training period are transferred and will be used in computing the USF GPA.

For more information, contact: Division of Continuing Education, P.O Box 113172, Gainesville, FL 32611-3172; (352) 392-1711, or visit their website at [http://flexible.dce.ufl.edu/](http://flexible.dce.ufl.edu/).

**Innovative Education**

*Web Address:* [www.uc.usf.edu](http://www.uc.usf.edu)

USF Innovative Education extends the University’s academic resources to help non-traditional learners meet their educational and professional goals by creating access and supporting credit and noncredit programs.

Innovative Education Student Services aims to increase access to educational programs designed for online learners, adult learners and working professionals. Support services are provided to inform the public about USF’s graduate certificates, professional master’s degrees, online/distance education, alternative calendar programs, bachelor’s degree completion options and non-credit education opportunities. UC Student Services also provides comprehensive departmental referrals for prospective students interested in traditional undergraduate and graduate programs.

- **BACHELOR OF GENERAL STUDIES (BGS) (CIP = 24.0106)**
  
  *Location/Phone:* SVC 1072; 1-888-873-4968 (USF4YOU); Fax: 813-974-7061
  
  *Web Address:* [http://uc.usf.edu/bgs/](http://uc.usf.edu/bgs/)
  
  *Contact E-mail:* askusf4you@usf.edu

USF’s Bachelor of General Studies Degree (BGS) is a customized, interdisciplinary degree completion that provides students with options to choose an appropriate academic program that fits their educational and professional goals. The BGS program will provide mid-career adult students with the opportunity to integrate completion of the baccalaureate degree into their established lifestyle.

To be eligible for admission to the BGS program, students must first be admitted to USF. After admission to USF, students must:

- Have completed at least 60 credit hours at a regionally accredited college or university
- Have been out of school for approximately three or more years
• Complete a screened application process conducted by a program advisor
• Be in good standing with former educational institutions
• Meet USF’s general admissions standards for transfer students (please refer to USF’s Admissions requirements for transfer students at this link http://usfweb2.usf.edu/admissions/transfer_reqs.htm)
• Demonstrate ability and desire to complete the degree (personal statement, letters of recommendation)

Special notes about USF students:
• Former students returning should meet with a BGS advisor prior to applying for the program.
• The BGS is not intended for currently enrolled USF students making satisfactory progress towards degree completion.

BGS applications include: two letters of recommendation, a personal goal statement (1-2 pages) and resume. These documents should be sent directly to:

Bachelor of General Studies Program
Innovative Education
University of South Florida
4202 E. Fowler Avenue, SVC 1072
Tampa, FL 33620

Upon acceptance to the BGS, students will complete the necessary coursework to reach 120 credit hours. The 120-hour requirement includes completing the following:
• USF General Education (GE) requirements or approved equivalents – unless GE credits were completed at another Florida institution
• USF residency requirements (at least 30 hours earned at USF Tampa)
• One or two disciplinary concentrations selected by the student and approved by the advisor
• All USF exit requirements
• All foreign language requirements
• A minimum of 48 semester hours of upper-level work (courses numbered 3000 and above)

BGS students will take an active role in creating their academic programs. Rather than choosing a traditional major, BGS students can choose from a number of established plans of study or can create their own individualized plan of study. BGS students complete 24-27 credits (core courses and electives) within a selected concentration in addition to their other degree requirements.

The following BSAS Areas of Concentration are offered fully or partially online:
• Criminal Justice (fully online)
• Public Health (fully online)
• Information Studies: Health Informatics (fully online)
• Information Studies: Information Architecture (fully online)
• Information Technology (fully online)
• Environmental Policy and Management (partially online)
• Urban Studies (partially online)
• Women’s and Gender Studies (partially online)

Consult advisor for availability of online course offerings.

Requirements for Areas of Concentration

BGS - Behavioral Healthcare Concentration (GBH) – 24 credits

Behavioral health problems, including mental illness and substance abuse, are among the greatest public health challenges facing our communities. Students enrolling in the Behavioral Healthcare concentration will be exposed to treatment approaches as well as to issues related to the organization, financing, delivery, and outcomes of behavioral health services. Combining academic and experiential learning, the concentration provides students with information and practical experience in behavioral healthcare services.

Concentration Requirements (15 credit hours):
MHS 3411 Multidisciplinary Behavioral Healthcare Services
MHS 4002 Behavioral Health Systems Delivery
MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
MHS 4425 Field Experience in Behavioral Healthcare
MHS 4703 Legal, Ethical and Professional Issues in BHC

Electives (6 credit hours):
CLP 4414 Behavior Modification
MHS 4022 Adult Psychopathology in the Community
MHS 4023 Recovery-Oriented Mental Health Services
MHS 4203 Practical Skills: Children’s Behavioral Healthcare
MHS 4434 Behavioral Health and the Family
MHS 4452 Co-occurring Disorders
MHS 4463 Suicide Issues in Behavioral Health
MHS 4490 Behavioral Healthcare Issues for Children
MHS 4731 Writing for Research and Publication in BCS
MHS 4931 Selected Topics
RCS 4033 Overview of Rehab and MH Counseling Professions

College EXIT Requirement (3 credit hours):
IDS 4934 Senior Capstone for BSAS/BGS

BGS – Business (GBU) – 27 credits
The Business concentration will give students exposure to the basic elements of all business disciplines. The goal of the business concentration is to provide students the opportunity to pursue a broad-based study of business through upper level course work tailor a program of studies that combines upper level coursework in business with electives from outside the College to meet career preparation goals.

Concentration Requirements (24 credit hours):
ACG 2021 Financial Accounting
ACG 2071 Managerial Accounting
ECO 2013 Macroeconomics
ECO 2023 Microeconomics
FIN 3403 Principles of Finance
MAN 3025 Principles of Management
MAR 3023 Basic Marketing
GEB 4890 Strategic Management and Decision Making

College EXIT Requirement (3 credit hours):
IDS 4934 Senior Capstone for BSAS/BGS

BGS – Criminal Justice Concentration (GCJ) – 24 credits
The Criminal Justice concentration provides students with an exposure to all facets of the criminal justice system including law enforcement, detention, the judiciary, corrections, and probation and parole. The program concentrates on achieving balance in the above aspects of the system from the perspective of the criminal justice professional, the offender, and society. The objective of the concentration in Criminal Justice is to develop a sound educational basis either for graduate work or for professional training in one or more of the specialized areas comprising the modern urban criminal justice system.

Concentration Requirements (6 credit hours):
CCJ 3117 Theories of Criminal Behavior
CCJ 3024 Survey of the Criminal Justice System

Electives (3 credit hours) – choose one of the following courses:
CJE 4114 American Law Enforcement Systems
CJE 4010 Juvenile Justice System
CJC 4010 American Correctional Systems

Electives (3 credit hours) – choose one of the following courses:
CJL 3110 Substantive Criminal Law
CJL 4410 Criminal Rights and Procedures

Electives (9 credit hours) – choose three of the following courses:
Do not choose a course that has already been counted above.
CCJ 3014 Crime and Justice in America
CCJ 3621 Patterns of Criminal Behavior
CCJ 3701 Research Methods in Criminal Justice I
CCJ 4224 Miscarriages of Justice
CCJ 4361 Death Penalty
CCJ 4450 Criminal Justice Administration
CCJ 4604 Abnormal Behavior and Criminality
CCJ 4613 Forensic Psychology
CCJ 4651 Drugs and Crime
CCJ 4662 Race and Crime
CCJ 4681 Domestic Violence
CCJ 4690 Sex Offenders
CCJ 4900 Directed Readings
CCJ 4910 Directed Research
CCJ 4933 Selected Topics in Criminology (may be repeated with different topics)
CCJ 4940 Internship for Criminal Justice Majors
CJE 4114 American Law Enforcement Systems
CJE 4010 Juvenile Justice System
CJE 4610 Criminal Investigation
CJC 4010 American Correctional Systems
CJL 3110 Substantive Criminal Law
CJL 4410 Criminal Rights and Procedures
CJL 4115 Environmental Law and Crime
Any other upper-level (3XXX-4XXX) course with a CCJ, CJC, CJE, CJL, or CJT prefix except CCJ 4934.

College EXIT Requirement (3 credit hours):
IDS 4934 Senior Capstone for BSAS/BGS

BGS – Environmental Policy & Management Concentration (GEM) – 25 credits

This concentration is a unique interdisciplinary program that incorporates courses from various colleges across the University. Although there are courses in the concentration that are offered by the Environmental Science and Policy Division, the degree concentration also offers students the opportunity to take supporting courses in other physical and natural sciences, statistics, policy, and ethics.

Concentration Requirements (7 credit hours):
EVR 2001 Introduction to Environmental Science
EVR 2001L Introduction to Environmental Science Lab
EVR 2861 Introduction to Environmental Policy

Electives (9 credit hours):
EVR 4027 Wetland Environments
EVR 4104 Karst Environments
EVR 4114 Climate Change
EVR 4930 Selected Topics
GEO 4502 Economic Geography
PHI 3640 Environmental Ethics

Electives (6 credit hours):
ANT 4403 Environmental Anthropology
ECP 3302 Environmental Economics
EDF 3228 Human Behavior and Environmental Selection
EVR 4930 Selected Topics
GEO 3602 Urban Geography
GEO 4280C Hydrology
GEO 4284 Water Resources Management
GEO 4340 Natural Hazards
GEO 4372 Global Conservation
GIS 3006 Computer Cartography
GIS 5049 GIS for Non-Majors
HSC 4551 Survey of Human Diseases
PAD 3003 Introduction to Public Administration
PAD 4144 Non-Profits and Public Policy
POS 3142 Introduction to Urban Politics/Government
POS 3182 Florida Politics and Government
POS 3697 Environmental Law
PUP 4002 Public Policy
PUP 4203 Environmental Politics and Policy
URP 4050 City Planning and Community Development
URS 3002 Introduction to Urban Studies
WST 3324 Women, Environment and Gender

College EXIT Requirement (3 credit hours):
IDS 4934 Senior Capstone for BSAS/BGS

BGS – Gerontology Concentration (GAS) – 24 credits

Gerontology is the study of the process of human aging in all its many aspects: physical, psychological and social. In the School of Aging Studies, particular emphasis is placed upon applied gerontology, with the goal of educating students who in their professional careers will work to sustain or improve the quality of life in older persons.

Concentration Requirements (12 credit hours):

College EXIT Requirement (3 credit hours):
IDS 4934 Senior Capstone for BSAS/BGS
GEY 2000 Intro to Gerontology
GEY 3601 Physical Changes and Aging
GEY 3625 Sociocultural Aspects of Aging
GEY 4612 Psychology of Aging

Electives (9 credit hours):
GEY 4101 Aging in Special Populations
GEY 4102 Aging in Modern Literature and Film
GEY 4231 Elder Abuse and Neglect
GEY 4322 Case Management
GEY 4360 Gerontological Counseling
GEY 4608 Alzheimer’s Disease Management
GEY 4629 Women and Aging
GEY 4635 Business Management in an Aging Society
GEY 4641 Death and Dying
GEY 4647 Ethical and Legal Issues in Aging
GEY 4690 Senior Seminar in Gerontology

College EXIT Requirement (3 credit hours):
IDS 4934 Senior Capstone for BSAS/BGS

BGS – Information Studies: Information Architecture Concentration (GFA) – 24 credits
The Information Architecture concentration provides students with the foundational technical knowledge, information design theory, and best practices supporting designing, organizing, classifying, and improving web sites and other online applications, organization intranets, social networking applications and online communities, and software for a variety of organizations. The Information Architect’s career opportunities may be in information architecture, project management, design, analysis, usability testing, planning, user interaction design, universal access design, web database design, customer management, and other information related fields.

Concentration Requirements (18 credit hours):
LIS 3261 Introduction to Information Science
LIS 3353 IT Concepts for Information Professionals
LIS 3783 Information Architecture
LIS 3361 Web Page Design and Management
LIS 3352 Interaction Design
LIS 4365 Web Design Technologies

Electives (3 credit hours):
CDA 3101 Computer Organization for Information Technology
CEN 3722 Human Computer Interfaces for Information Technology
CEN 4031 Software Engineering Concepts for Information Technology
CGS 3303 IT Concepts
CGS 3373 IT Concepts & Data Networking
CGS 3374 Computer Architecture & Operating Systems
CGS 3845 Electronic Commerce
CGS 3847 Advanced E-Commerce
CGS 3850 Web Development: JavaScript & jQuery
CGS 3853 IT Web Design
CGS 4855 Intermediate Web Development (jQuery)
CIS 3360 Principles of Information Security
CIS 3362 Cryptography and Information Security
CIS 3367 Architecting Operating System Security
CIS 3932 Special Topics for Information Technology
CIS 4204 Ethical Hacking
CIS 4253 IT Ethics
CIS 4361 Information Technology Security Management
CIS 4365 Computer Security Policies and Disaster Preparedness
CIS 4368 Database Security and Audits
CIS 4412 Information Technology Resource Management
CIS 4510 IT Project Management
CIS 4932 Special Topics for Information Technology
CIS 4935 Senior Project in Information Technology
COP 1930 Special Topics for Information Technology
COP 2930 Special Topics for Information Technology
COP 2931 Special Topics for Information Technology
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>COP 3515</td>
<td>Program Design for Information Technology</td>
</tr>
<tr>
<td>COP 3718</td>
<td>Intermediate Database Systems</td>
</tr>
<tr>
<td>COP 3931</td>
<td>Special Topics for Information Technology</td>
</tr>
<tr>
<td>COP 4610</td>
<td>Operating Systems for Information Technology</td>
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<tr>
<td>COP 4610L</td>
<td>Operating Systems Laboratory for Information Technology</td>
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<tr>
<td>COP 4814</td>
<td>Web Services</td>
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<tr>
<td>COP 4816</td>
<td>XML Applications</td>
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<tr>
<td>COP 4834</td>
<td>Data-Driven Web Sites</td>
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<tr>
<td>COP 4931</td>
<td>Special Topics for Information Technology</td>
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<tr>
<td>EEL 4782</td>
<td>Computer Information Networks for Information Technology</td>
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<tr>
<td>EEL 4782L</td>
<td>Information Networks Laboratory for Information Technology</td>
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<tr>
<td>EEL 4854</td>
<td>Data Structures and Algorithms for Information Technology</td>
</tr>
<tr>
<td>ETG 3612</td>
<td>Operations Management</td>
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<tr>
<td>ETG 3931</td>
<td>Special Topics in Information Technology</td>
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<tr>
<td>ETG 3933</td>
<td>Selected Topics in Technology</td>
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<tr>
<td>ETG 3934</td>
<td>Selected Topics in Technology II</td>
</tr>
<tr>
<td>ETG 4930</td>
<td>Special Topics in Information Technology</td>
</tr>
<tr>
<td>LIS XXXX</td>
<td>Approved Information Science elective</td>
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<td></td>
<td><strong>College Exit Requirement (3 credit hours):</strong></td>
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<tr>
<td>IDS 4934</td>
<td>Senior Capstone for BSAS/BGS</td>
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**BGS – Information Technology Concentration (GIT) – 24 credits**

The Information Technology concentration is designed to bridge the gap between computer science and the business use of computers. Emphasis is placed on knowledge-based computer and information technology as well as applications, programming and networking in an era of rapidly changing technology.

**Entrance Requirement for IT concentration:** Students must have prior experience and/or coursework in Information Technology, Computer Science, Networking, or a closely related field.

**Concentration Requirements (10 credit hours):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>CGS 3303</td>
<td>Information Technology Concepts</td>
</tr>
<tr>
<td>EEL 4782</td>
<td>Computer Information Networks for IT</td>
</tr>
<tr>
<td>EEL 4782L</td>
<td>Computer Information Networks for IT Lab</td>
</tr>
<tr>
<td>CIS 4935</td>
<td>Senior Project in Information Technology</td>
</tr>
</tbody>
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**Electives (11 credit hours):**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CDA 3101</td>
<td>Computer Organization for IT</td>
</tr>
<tr>
<td>CEN 3722</td>
<td>Human Computer Interfaces for IT</td>
</tr>
<tr>
<td>CEN 4031</td>
<td>Software Engineering Concepts for IT</td>
</tr>
<tr>
<td>CGS 2034</td>
<td>Computers and Impact on Society</td>
</tr>
<tr>
<td>CGS 2060</td>
<td>Intro to Computers and Programming</td>
</tr>
<tr>
<td>CGS 2094</td>
<td>Cyber Ethics</td>
</tr>
<tr>
<td>CGS 3845</td>
<td>Electronic Commerce</td>
</tr>
<tr>
<td>CGS 3853</td>
<td>IT Web Design</td>
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<tr>
<td>CIS 3932</td>
<td>Selected Topics for Information Technology</td>
</tr>
<tr>
<td>CIS 4361</td>
<td>Information Technology Security Management</td>
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<tr>
<td>CIS 4412</td>
<td>Information Technology Resource Management</td>
</tr>
<tr>
<td>COP 2510</td>
<td>Programming Concepts</td>
</tr>
<tr>
<td>COP 2931</td>
<td>Selected Topics for Information Technology</td>
</tr>
<tr>
<td>COP 3515</td>
<td>Program Design for IT</td>
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<tr>
<td>COP 3931</td>
<td>Selected Topics for Information Technology</td>
</tr>
<tr>
<td>COP 4610</td>
<td>Operating Systems for IT</td>
</tr>
<tr>
<td>COP 4703</td>
<td>Database Systems for IT</td>
</tr>
<tr>
<td>EEL 4854</td>
<td>Data Structures and Algorithms for IT</td>
</tr>
<tr>
<td>ETG 4932</td>
<td>Selected Topics in Technology II</td>
</tr>
</tbody>
</table>

**College Exit Requirement (3 credit hours):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDS 4934</td>
<td>Senior Capstone for BSAS/BGS</td>
</tr>
</tbody>
</table>

**BSAS – Leadership Studies Concentration (ALS) – 24 credits**

The Leadership Studies program is interdisciplinary in nature and is a significant benefit to students in all areas of study. Courses are designed to give students a practical and theoretical grasp of leadership on the basic assumption that leadership can be learned and, therefore, taught. The program has a unique approach to leadership that combines practical theories and opportunities for students to study the characteristics of authority, leadership, social and role dynamics, political processes and the values that orient their careers.
Concentration Requirements (3 credit hours):
  LDR 4104 Theories of Leadership

Electives (3 credit hours):
  LDR 2010 Leadership Fundamentals
  LDR 3331 Leading in the Workplace

Electives (9 credit hours):
  LDR 3214 Leadership in the Fraternal Movement
  LDR 3280 Leadership in the Political Context
  LDR 3930 Special Topics (repeatable with different topics)
  LDR 4114 Survey of Leadership Readings
  LDR 4164 Organizational Theory/Process
  LDR 4564 Images of Leadership in the Media

Electives (6 credit hours):
  LDR 3115 Contemporary Issues in Leadership
  LDR 3216 Leadership and Social Change
  LDR 3263 Community Leadership Practicum
  LDR 4204 Ethics and Power in Leadership
  LDR 4230 Global Leadership

College EXIT Requirement (3 credit hours):
  IDS 4934 Senior Capstone for BSAS/BGS

BGS - Public Administration Concentration (GPA) – 24 credits
The Public Administration concentration courses will benefit those students preparing for a career in local, state, or federal agencies of government, non-profit organizations, and special service districts and/or graduate work in public administration and related fields.

Concentration Requirements (15 credit hours):
  PAD 3003 Introduction to Public Administration
  PAD 4204 Public Financial Administration
  PAD 4415 Personnel and Supervision in Today’s Organizations
  PAD 4712 Managing Information Resources in the Public Sector
  PAD 4144 Nonprofit Organizations and Public Policy

Electives (6 credit hours):
  PAD 4930 Selected Topics in Public Administration
  PAD XXX Any 5000-level course with a PAD prefix
  POS 3182 Florida Politics and Government
  URP 4050 City Planning and Community Development
  URS 3002 Introduction to Urban Studies

College EXIT Requirement (3 credit hours):
  IDS 4934 Senior Capstone for BSAS/BGS

BGS – Public Health Concentration (GPU) – 24 credits
Upon completion of the Public Health concentration coursework, a student will be able to articulate the role of public health in disease prevention and health promotion at the local, state, national and global level, describe public health concepts and issues, discuss and analyze current public health issues, describe career paths in public health, and develop an understanding of public health that can serve as a foundation for graduate coursework in the field.

Concentration Requirements (9 credit hours):
  PHC 4101 Introduction to Public Health
  PHC 4030 Introduction to Epidemiology
  HSC 4551 Survey of Human Disease

Electives (12 credit hours):
  HSC 3541 Human Structure and Function
  HSC 4172 Women’s Health: A Public Health Perspective
  HSC 4211 Health, Behavior and Society
  HSC 4430 Occupational Health and Safety
  HSC 4504 Foundations of Public Health Immunology
  HSC 4537 Medical Terminology
  HSC 4579 Foundation of Maternal and Child Health
  HSC 4573 Foundations of Food Safety
  HSC 4624 Foundations of Global Health
  HSC 4630 Understanding U.S. Health Care
  HSC 4631 Critical Issues in Public Health
HSC 4933 Special Topics in Public Health
HUN 3272 Sports Nutrition
HUN 3296 Nutrition and Disease
PHC 4031 Emerging Infectious Diseases
PHC 4069 Biostatistics in Society
PHC 4241 Mental Health and Disasters
PHC 4406 Pop Culture, Vices, and Epidemiology
PHC 4542 Stress, Health and College Life
PHC 4720 Foundation to Professional Writing in Public Health
PHC 4931 Health Care Ethics

**College Exit Requirement (3 credit hours):**
IDS 4934 Senior Capstone for BSAS/BGS

### BGS – Urban Studies Concentration (GUS) – 24 credits

The Urban Studies concentration offers students the opportunity to supplement their education and training with a focus on the problems and potential of the urban world around us. Understanding the economic, social, cultural, political and spatial phenomena of urban areas, and how they came to be, is essential if one is to thrive in today's world.

**Concentration Requirements (6 credit hours):**
- URS 3002 Introduction to Urban Studies
- PAD 3003 Introduction to Public Administration

**Electives (6 credit hours):**
- URP 4050 City Planning and Community Development
- URP 4052 Urban and Regional Planning
- URP XXXX Approved course with an URP or URS XXXX Approved course with an URS prefix

**Electives (9 credit hours):**
- AMH 3423 Modern Florida
- AMH 3500 American Labor History
- AMH 3530 Immigration History
- AMH 3572 African American History since 1865
- AMS 3700 Racism in American Society
- ARC 4784 The City
- CCJ 3003 Crime and Justice in America or CCJ 3024 Survey of the Criminal Justice System
- CCJ 3117 Theories of Criminal Behavior
- EVR 2861 Introduction to Environmental Policy
- IDS 4942 Community Internship
- PAD 4144 Nonprofit Organizations and Public Policy
- PAD 4204 Public Financial Administration
- PAD 4930 Selected Topics in Public Admin/Policy
- PAD 5035 Issues in Public Admin/Policy
- PAD 5807 Urban and Local Government Administration
- POS 3142 Introduction to Urban Politics and Government
- POS 3182 Florida Politics and Government
- SOW 3210 American Social Welfare System
- SPC 3710 Communication and Cultural Diversity
- SYD 3700 Racial and Ethnic Relations
- SYD 4410 Urban Sociology
- SYP 4530 Sociology of Juvenile Delinquency
- TTE 4003 Transportation and Society

**College Exit Requirement (3 credit hours):**
IDS 4934 Senior Capstone for BSAS/BGS

### BGS – Women’s and Gender Studies (GWS) – 24 credits

The Women’s and Gender Studies concentration offers a critical examination of women’s experiences and issues through history, culture, race, ethnicity, class, sexuality, and other important intersections of identity. The program seeks to provide students with a sound educational basis for graduate work or further professional pursuits in health, education, activism, social service, or social justice.

**Concentration Requirements (6 credit hours):**
- WST 3015 Introduction to Women’s Studies
- WST 3311 Issues in Feminism

**Electives (15 credit hours):**
COM 4030 Women and Communication
SYD 4800 Gender and Society
WST 2250 Female Experience in America
WST 2600 Human Sexual Behavior
WST 3324 Women, Environment, and Gender
WST 3370 Women and Social Action
WST 4002 Feminist Research Methods
WST 4262 Literature by Women of Color in the Diaspora
WST 4310 History of Feminism in the US
WST 4320 Politics and Issues in Women's Health
WST 4522 Classics in Feminist Theory
WST 4930 Selected Topics

College Exit Requirement (3 credit hours):
IDS 4934 Senior Capstone for BSAS/BGS

The USF Library System
Phone: 813-974-2729
Web Address: www.lib.usf.edu
Contact Email: http://www.lib.usf.edu/help/#email

There are three libraries at USF--the USF Tampa Library, Florida Mental Health Research Library, and the Shimberg Health Sciences Library.

Office of Research & Innovation
Location/Phone: USF Research Park, 3702 Spectrum Blvd., Suite 165, Tampa, FL 33612, (813) 974-5570
Web Address: http://www.research.usf.edu/

Creative research and scholarly activities are essential aspects of the undergraduate educational experience at USF. The promotion and administration of research are the responsibilities of the Office of Research & Innovation (OR&I) and its divisions, which provide services that enable USF faculty, staff and students at all academic levels to be competitive in a dynamic research environment.

OR&I supports undergraduate research through the Office for Undergraduate Research (OUR). The OUR maintains an e-mail help center to address undergraduate research questions at ur@ur.usf.edu. The deadlines, application instructions and eligibility requirements for OUR funding initiatives that support undergraduate research may be found on the OUR website (http://lib.usf.edu/undergraduate-research/). An excellent undergraduate research experience is available through the College of Engineering’s Research Experience for Undergraduates (COE-RU). Contact your departmental REU advisor for more information (http://www2.eng.usf.edu/reu/).

From developing a grant proposal to filing a patent, OR&I staff are trained professionals committed to meeting the needs of USF researchers. In turn, the dedication of USF students and faculty has contributed to the phenomenal

In addition to the programs noted above, students can become involved in research by contacting faculty, who, with the support of private and public agencies, contribute to our knowledge about the world in which we live and apply their findings and skills to solving many of the problems facing contemporary society. Many contributions evolve from basic research; others, from practical applications of new knowledge. USF encourages research as a vital part of the University’s instructional programs.

Department of Veterans Affairs (VA) Benefits

USF is approved for the education of veterans, eligible dependents/spouses, members of the selected reserve, and active-duty personnel who are eligible for benefits under public laws now in effect. All degree programs currently offered at USF are approved by the Department of Veterans Affairs. Students who may be eligible for benefits are urged to contact Veterans Services, (813) 974-2291, for information, procedures, and forms as early as possible. To initiate, change, or renew benefits at USF, a request must be submitted through that office.

VA regulations require that students take only courses that are applicable to their degree program or other approved programs and make satisfactory progress toward their degree. Students should log on to USF Veterans Services website: http://www.veterans.usf.edu for information on various programs/services, and VA rules and regulations. Under no circumstances will the VA pay benefits to a student taking a course by audit. It is the student’s responsibility to inquire concerning all VA rules and regulations and to report any change in number of registered hours, change of majors, or adding a double major or dual degree. Additionally, VA benefits will be terminated for students who are dismissed for academic reasons and can only be reinstated after academic counseling and approval from the Academic Regulations Committee.

Veterans with a service-connected disability approved for benefits under Chapter 31 may contact the Office of Student Financial Services no earlier than two weeks prior to the start of classes for a book and supplies voucher. The VA toll-free number is 1-888-442-4551.
First-time-in-college (FTIC) students take 4-7 Honors courses that examine the nature of human knowledge, ethics, interdisciplinary approaches to the natural and social sciences, arts and humanities, multiculturalism, and major works and issues. Then, a Senior Honors Thesis or Project is the culmination of the Honors experience. (Course descriptions-IDH prefix-appear later in the catalog.) Students also complete six semester hours of English, six semester hours of Mathematics, and the foreign language exit requirement (please refer to the foreign language requirement for students pursuing the Bachelor of Arts degree for further information). Honors students may satisfy the English, Math, and Foreign Language requirements through Advanced Placement, IB, dual enrollment, and CLEP (See “Academic Programs and Services” section). First-time-in-college Honors students satisfy USF Foundations of Knowledge and Learning (FKL) requirements by completing the core Honors courses, the Senior Honors Thesis or Project and the FKL, English, Math, and Foreign Language requirements. Enrolling in the Honors College does not generally increase the number of credits needed to graduate.

The Honors College offers a variety of accelerated programs in Medicine (7-year B.S./M.D.), Public Health, and the Medical Sciences (B.A./Ph.D.). The Honors College also houses the Provost’s Scholars Program, a program for students who wish to graduate in three years while enjoying a rich college experience. Details may be found on the Honors College website or by calling the Honors College.

Potential FTIC students are actively recruited. Invited students present at least a 3.80 USF recalculated weighted academic high school GPA and a 1300 SAT (based only on Critical Reading and Mathematics sections) or a 29 composite ACT score. Any student not invited as freshman may apply for admission to the Honors College once they accumulate 45 college credits with a 3.50 college GPA.

Students interested in the 7-year BS/MD Program must present a 1350 SAT or a 30 composite ACT score, and must be a U.S. Citizen or Permanent Resident of the United States. Transfer and continuing students are not eligible to enter the 7-year BS/MD Program.

Continuing USF students and transfer students accepted into the Honors College take five Honors courses that include: inquiry into major works and major issues, a two-semester Senior Thesis, and two electives chosen from the core Honors offerings. Students also complete the foreign language exit requirement. Completion of the Honors Senior Thesis may satisfy the USF Capstone and Writing Intensive requirements. Enrolling in the Honors College does not generally increase the number of credits needed to graduate.

Departmental Honors opportunities are available in select departments that wish to offer Honors-level work for superior students majoring in their disciplines. Requirements vary according to department, but all require the completion of a Thesis. Students may enroll in both the Honors College and Departmental Honors.

Admission to the Honors College is determined by the Dean of The Honors College; admission to Departmental Honors is determined by the individual department. Students who satisfactorily complete Honors College requirements and graduate with at least an overall GPA of 3.30 and a USF GPA of 3.30 (all course attempts are included in the Honors GPA) shall be identified as Honors College graduates on their diplomas and transcripts, and at the Honors College Graduation Ceremony.

Honors Research Major

The Honors College Research Major (HCRM) is designed primarily for Honors College (HC) students preparing for graduate or professional school, although it is available to other HC students as well.

The HCRM is designed to be a second major. That is, in order to have an HCRM, a student would complete all requirements of a regularly offered USF major. (Credits = 30-36)

HCRM students complete IDH 2010, 3100, 3350, 3600, 3400 and 4200, ENC1101 and ENC1102, and 2 semesters of FKL mathematics in order to meet USF Foundation of Knowledge and Learning requirements. Students also complete the foreign language exit requirement (please refer to the foreign language requirement for students pursuing the Bachelor of Arts degree for further information). AP, IB, CLEP, dual enrollment and other acceptable forms of credit could be used to satisfy the English, math and foreign language requirements. (Credits = 18-42)

The HCRM consists of 30 credit hours and includes courses to satisfy the USF Capstone and Writing Intensive Requirements (six credits of IDH 5975).

The 30 hours consists of 2 cognates, each containing a minimum of 12 credit hours. Each cognate requires a research project of at least 9 credit hours; the remaining hours could be appropriate coursework, independent study or an increased number of research hours.

One cognate is directly related to the student’s primary major; the second cognate must be outside the department of the student’s major.

The student will have a separate research committee for each cognate, consisting of a mentor and two faculty “readers.” The HC Dean approves the mentor, and the mentor approves the “readers”. The committee and student design the cognate courses of study and submit the written plan for HC approval.
The committee shall ensure that the student has an appropriate background in scientific method/experimental design/research tools. Research project format shall be discipline appropriate and clearly represent the number of credits earned.

Formal prospectus/proposal and final presentations will be required of each student in both cognates. No grade below B will be accepted towards the HCRM.

Accelerated Bachelor's/J.D. Program

Beginning Fall 2013, the University of South Florida Honors College has entered into an agreement with Stetson University College of Law (SUCL) to offer an accelerated Bachelor's/J.D. program. This 3 +3 program will allow first-year students to use their first year law curriculum to count as the 4th year elective requirements for the Bachelor’s degree, graduate from USF and be a second year law student. Students must be admitted to the Honors College as first year students and meet the following eligibility criteria.

- Provide notice to the USF Honors College of intent to apply for the 3+3 Program on or before September 1 of the year prior to the intended matriculation date at the College of Law (generally at the beginning of the student’s junior year);
- Complete at least 89 credits in the undergraduate curriculum before matriculating at the College of Law;
- Complete all general-education requirements and all other requirements for the student’s major before matriculating at the College of Law;
- Earn a minimum cumulative GPA of 3.5 in courses taken at USF as of the date of application to the College of Law;
- On or before the application date, earn a minimum score on the LSAT at the 75th percentile of the most recent class to matriculate at the College of Law;
- Receive written recommendation of the Dean of the USF Honors College no later than December 1st in the academic year before the student intends to begin J.D. study;
- Apply to the College of Law for admission into the full-time J.D. program between October 1st and January 15th in the academic year before the student intends to begin J.D. study;
- Meet the College of Law’s character and fitness requirements and comply with the College of Law’s general admissions policies; and
- Participate in the College of Law’s Academic Success Workshop during the student’s first year of law school.

Benefits for Students Enrolled in 3+3 Program

Students admitted into the College of Law under the 3+3 Program will automatically receive a scholarship of at least one-half tuition, renewable for the second and third years of law school subject to the College of Law’s academic scholarship requirements. In addition, students admitted into the College of Law under the 3+3 Program will be assigned a student, alumni, and/or faculty mentor to assist during the period from admission until matriculation at the College of Law. Students will receive a book stipend for their first year books (up to $1,500), redeemable at the College of Law bookstore.

For further information contact Dr. Sandra Fogel or call the Honors College Office 813-974-3087.

George Jenkins Scholars Program

The Jenkins Scholars Program is one of the highest funded academic scholarships at USF. The George Jenkins Scholarships are funded through the Publix Super Markets Charities, which was founded by the late George Jenkins, the initial founder and owner of Publix Supermarkets.

A select group of Jenkins Scholars are elected annually from a statewide competition of high school seniors who are admitted to USF as freshmen. The Jenkins recipients are academically talented students with financial need.

The Jenkins Scholars Program is designed to provide academic and personal support services for all scholars, freshman through senior year. The scholars participate in various scholarly and cultural activities, such as academic monitoring, mentoring activities, academic/personal development seminars, career advising and planned activities with the Jenkins family.

Holcombe Scholars Program

The Holcombe Scholars Program is one of the highest funded academic scholarships at USF. These scholarships are funded by Brad and Terry Holcombe, two USF graduates.

A select group of Scholars are elected annually from a statewide competition of high school seniors who are admitted to USF as freshmen. The Holcombe recipients are academically talented students with financial need.
The program is designed to provide academic and personal support services for all scholars, freshman through senior year. The scholars participate in various scholarly and cultural activities, such as academic monitoring, mentoring activities, academic/personal development seminars, career advising and planned activities with the Holcombe family.

Office of National Scholarships & Resources for Educational Distinction

Location/Phone: ALN 244; (813) 974-3087
Web Address: http://ons.usf.edu

The Office of National Scholarships matches high achieving students, both undergraduate and graduate, with prestigious nationally competitive scholarships, fellowships and awards. Some awards support graduate or professional study in the U.S., while others involve education abroad or independent research.

These opportunities are open to all qualified USF students who wish to apply. The Office identifies recruits and mentors students who apply for merit scholarships such as Rhodes, Marshall, Mitchell, Fulbright, Goldwater and Truman.

University of South Florida students have won nationally prestigious awards including Truman, Goldwater, and Udall.

The Undergraduate Scholar Award is a University of South Florida designation. To earn the Undergraduate Scholar Award, a student must do three things: complete a mentored research project, a leadership/service project and have a significant global experience. An integrative essay describing the experiences is the final part of the process. This program adds depth to students' academic experience by fostering applied learning to real-life issues and problems through faculty-supervised research. This innovative program creates opportunities for students to engage in meaningful service and promotes 'connecting' with the global community. USF's Undergraduate Scholar Award recognizes students who fulfill the University's goals of community engagement, undergraduate research, and global citizenship on a student's transcript.

Honors Faculty

Dean: S. Silverman; Associate Dean: G. Kleine; Director, Office of National Scholarships: L. Lucas. (Instructors for Honors courses are recruited from among the University’s outstanding teacher-scholars.)
The College of Arts and Sciences is a community of scholars dedicated to the idea that educated people are the basis of a just and free society. The essentials of education are a capacity for and an appreciation of social change within a context of prior human achievement. The faculty of the Arts and Sciences strive to instill in their students a history of human ideas, a sense of love for learning, and an understanding of the means that scholars have used in their search for beauty and order in the natural world.

The education provided by the disciplines of the Arts and Sciences is the foundation upon which the lives and professions of our students are built, and the basis from which personal growth occurs. The College of Arts and Sciences takes as its goal a melding of the natural, humanistic and social philosophies into a comprehensive whole that encourages the development of new ideas and new approaches to the understanding of our universe.

Great universities provide direction for their communities and service for their needs. The faculty of the Arts and Sciences as well as the staff, who support and encourage their work, explore their scholarly interests within the home and community created by the academic society. It is the responsibility of scholars to share their discoveries for the betterment of society. Thus, the Arts and Sciences embrace disciplines that strive to make immediate use of knowledge in the service of social goals as well as disciplines whose discoveries contribute to the fund of basic information that is the stepping stone of applied knowledge.

General Information

The College of Arts and Sciences Dean’s Office is located in Cooper Hall (CPR), Room 107. For additional information about the College, visit our web site at http://www.cas.usf.edu. Information regarding advising, admission to the College, graduation requirements, special programs, and departments follows.

Community Initiative

Universities have become major actors in today’s knowledge-based society. As such they can no longer remain secluded ivory towers, removed from the social problems that surround them. Recognizing this, the College of Arts and Sciences launched the Community Initiative, a new focus that identifies the community outside the university as an integral part of its educational mission to acquire, disseminate, and apply knowledge. The Community Initiative develops concrete and integrated efforts to link the teaching, research, and service components of our College with the interests and needs of residential, community-based organizations and businesses in the local area. Two major components of the Community Initiative are the Urban Studies Certificate Program and the Community Experiential Learning (CEL) Program. The Urban Studies Certificate gives students the opportunity to supplement their education and training with a focus on the urban world around them. Through the Community Experiential Learning (CEL) Program, students can explore the relationship between their classroom learning and the broader community as they do community-based independent research or internships.

Undergraduate Advising Information

Advising in the College of Arts and Sciences is provided by professional academic advisors closely associated with the department of their major. For a list of advisors, consult “Academic/Students” on the College of Arts and Sciences web page at http://www.cas.usf.edu. The Arts and Sciences Office of Graduate and Undergraduate Studies, located in the Behavioral Science Building (BEH), Room 201, (813) 974-6957, handles all student-related academic matters. Advising for Pre-Health Professions is provided through the Office of Graduate and Undergraduate Studies, USF Tampa, and is located in the Natural Sciences and Mathematics Advising Center.

The Arts and Sciences Office of Graduate and Undergraduate Studies is open 8 a.m. to 5 p.m. Monday through Friday. Academic advisors and major departments should be contacted directly to obtain information about office hours and appointment availability. Students are also encouraged to utilize the College’s on-line advising information located at http://www.cas.usf.edu.

Undergraduate Admission to the College of Arts and Sciences

Admission to the College of Arts and Sciences is open to students who have been accepted to the University of South Florida and who declare a major in a particular field. Mass Communications is a limited access degree program and has additional requirements listed under “Departments and Programs.”

Undergraduate students must submit a formal application for admission into the College. This usually occurs during orientation and advising for new students. This application is available online for current students at http://www.cas.usf.edu/declare. Students preparing for a science or mathematics career must plan their courses carefully because of the sequential nature of the curricula. Students seeking entrance into a health professional school or the medical technology internship program require specialized counseling, therefore, immediate application for admission into the College is strongly recommended.

Information on admission criteria, departments, majors, programs, advising and other services of the College may be obtained from the Office of Graduate and Undergraduate Studies (BEH 201), College of Arts and Sciences, University of South Florida, Tampa, Florida 33620, or visit our web site at http://www.cas.usf.edu.
General Requirements for B.A./B.S. Degree Within the College of Arts and Sciences

The College of Arts and Sciences offers two undergraduate degrees: Bachelor of Arts and Bachelor of Science.

**It is each student’s responsibility to meet graduation requirements:**

1. Complete at least 120 accepted semester hours, 124 for Mass Communications, with a minimum USF cumulative GPA and overall GPA of 2.0. (Important! All grades including “D”s and “F”s are used to calculate GPA’s for students in the College of Arts and Sciences.)
2. Maintain major GPA of 2.0 in USF coursework. Note: In Anthropology, English and Mass Communications students must have a 2.50 major GPA in USF coursework.
3. Complete the Foreign Language Entrance Requirement and students pursuing a B.A. degree must complete the Foreign Language Exit Requirement.
4. Students enrolling in USF must satisfy Articulation Resolution 6A-10.30 (Gordon Rule) concerning computation and communication. Transfer students who enter the University of South Florida with 60 or more semester hours from a regionally accredited institution are considered to have met the communication portion of the Gordon Rule.
5. Complete Foundations of Knowledge and Learning Core Curriculum Requirements:
   - Core Curriculum Requirements of 36 hours credit:
     a. English Composition 6
     b. Mathematics and Quantitative Reasoning 6
     c. Natural Sciences 6
     d. Social and Behavioral Sciences 6
     e. Human Cultural Diversity Global Context 3
     f. Fine Arts 3
     g. Humanities 6
   - Total 36
   - EXIT Course Requirements
     a. Capstone Course 3
     b. Writing Intensive Course 3
   - Total 6
6. Physical Education coursework is limited to two (2) semester hours.
7. ROTC courses are limited to nine (9) semester hours.
8. When double majoring, a maximum of two (2) departmental courses or eight (8) credit hours may be used to satisfy requirements between majors. Students should check with the college and respective departments when pursuing more than one major/degree. The only exception whereby a student may apply more than eight (8) credit hours of overlapping coursework to their majors/degrees are those students who pursue double majors or two degrees between the College of Education and the College of Arts and Sciences.
   a. The College of Arts and Sciences defines a “major” as those courses taught by the department where the major is housed.
   b. In the case of interdisciplinary programs (Biomedical Sciences, Interdisciplinary Natural Sciences, Health Sciences, International Studies, Environmental Science and Policy, French International Studies & Business Concentration, Spanish International Studies & Business Concentration and Interdisciplinary Social Sciences) overlapping coursework between double majors requires prior approval.
9. Maximum of 20 hours of S/U option. S/U contracts must be negotiated in writing within the first three (3) weeks of the term. None of the 20 credits may be taken in the student’s major unless S/U is the only grading option. Coursework fulfilling the Gordon Rule requirement may not be taken S/U.
10. The Audit option is available only during the first 5 days of classes.
11. Complete at least 9 semester hours at a Florida public university in the Florida State University System during summer terms if entering USF with fewer than 60 semester hours.
12. “D” grades are not acceptable in the major and supporting sciences for all natural sciences majors (Biomedical Sciences; Cell Biology, Microbiology, and Molecular Biology; Integrative Biology; Interdisciplinary Natural Sciences; Medical Technology; Chemistry; Geology; Math; and Physics). “D” grades are not acceptable for the major area in Anthropology, Communication, English, Geography, History, Humanities, Mass Communications, Philosophy, Psychology, and Sociology.
13. Complete all major course requirements.
14. Complete a minimum of 48 hours of upper-level courses (numbered 3000 or above).
15. Thirty (30) of the last 60 semester hours must be completed at USF to fulfill the residency requirement.
16. Biomedical Sciences; Cell Biology, Microbiology, and Molecular Biology; Chemistry; Economics; English; Integrative Biology; Interdisciplinary Natural Sciences; Mass Communications; Mathematics; Physics; Political Science; Religious Studies; and Sociology have established minimum major course hours to be taken in
residency at USF. See the department section of the catalog for these credit-hour requirements. In addition, all students who have majors outside the natural sciences must take a minimum of 80 hours outside of the major department.

For late application information, please refer to the Application for Graduation section of the Academic Policy and Procedures division of the catalog.

Note: The College of Arts and Sciences will not accept graduation applications from potential baccalaureate students who have previously been denied graduation three times. Upon the third denial, the students will be informed in writing that they may only reapply with documentation that they have met all outstanding baccalaureate graduation requirements.

DEPARTMENTAL MINOR

Minors generally require half as many hours as required for the major. In order to help students develop some concentration in elective work taken in conjunction with their chosen major, the College of Arts and Sciences offers minors in the following:

- Africana Studies
- American Studies
- Anthropology
- Astronomy
- Biomedical Physics
- Chemistry
- Chinese
- Classics
- Communication
- Economics
- English-Creative Writing
- English-Literary Studies
- English-Professional Writing, Rhetoric and Technology
- Environmental Policy
- Film and New Media Studies
- French
- Geography
- Geology
- German Studies
- History
- Humanities
- Interdisciplinary Classic Civilizations
- International Studies
- Italian
- Mass Communications
- Mathematics
- Microbiology
- Modern Greek
- Philosophy
- Physics
- Political Science
- Public Administration
- Religious Studies
- Russian
- Sociology
- Spanish
- Women’s and Gender Studies

Certain restrictions apply to students earning a minor: (a) students may not use departmental courses applied to the major for the minor; and (b) ISS majors may not earn a minor in any of the concentration areas incorporated in their degree. In some departments, S/U grades within the minor curriculum are not countable. Specific requirements for the different minors appear under the departmental summaries listed under “Departments and Programs.”

Baccalaureate-Level Degree Programs

The departments in the College of Arts and Sciences include: Africana Studies; Anthropology; Cell Biology, Microbiology and Molecular Biology; Chemistry; Communication; Economics; English; Geography, Environment and Planning; Geology; Government and International Affairs; History; Humanities and Cultural Studies; Integrative Biology; Mass Communications; Mathematics and Statistics; Philosophy; Physics; Psychology; Public Affairs; Religious Studies; Sociology; Women’s and Gender Studies, and World Languages.

BACHELOR OF ARTS (B.A.)

- Africana Studies (AFA)
- American Studies (AMS)
- Anthropology (ANT)
- Chemistry (CHM)
  - Biochemistry Concentration (CBY)
  - Health Professions Concentration (CHH)
- Classics (CLS)
- Communication
  - Relational Communication (SRC)
  - Organizational Communication (SOG)
  - Health Communication (SHC)
- Culture and Media (SMD)
- Performance Studies (SPS)
Public Advocacy (SAD)
Economics (ECO)
English
  Creative Writing Concentration (CRW)
  Literary Studies (LTS)
  Professional Writing, Rhetoric and Technology (TCM)
French (FRE)
  French International Studies & Business Concentration (IFB)
Geography (GPY)
Geology (GLY)
German (GMS)
History (HTY)
Humanities (HUM)
Interdisciplinary Classical Civilizations (ICC)
Interdisciplinary Social Sciences (ISS)
International Studies (INT)
Italian (ITA)
Mass Communications
  Advertising Concentration (ADV)
  Journalism/Magazine Production Concentration (MAG)
  News Concentration (NWS)
  News Editorial Concentration (JOU)
  Programming and Production Concentration (PGM)
  Public Relations Concentration (PUR)
Mathematics (MTH)
Philosophy (PHI)
Physics (PHY)
Political Science (POL)
Psychology (PSY)
Religious Studies (REL)
Russian (RUS)
Sociology (SOC)
Spanish (SPA)
  Spanish International Studies & Business Concentration (ISB)
Statistics (STC)
Women’s and Gender Studies (WGS)

BACHELOR OF SCIENCE (B.S.)
Following is the list of Biology majors:
  Cell and Molecular Biology (CAM)
  Environmental Biology (ENB)
  Environmental Microbiology (EMB)
  Integrative Animal Biology (IAB)
  Marine Biology (MRN)
  Health Sciences (HHS)
  Microbiology (MIC)
Chemistry:
  Chemistry (CHS)
  Biomedical Sciences (BMS)
  Medical Technology (MET)
  Interdisciplinary Natural Sciences (INS)
  Environmental Science and Policy (ESP)
Geology (GLS)
Information Studies (IFS)

Honors Programs
The College of Arts and Sciences offers undergraduate honors programs in Anthropology, Classics, Communication, English, Geology, Mathematics, Philosophy, Political Science, Psychology, Religious Studies, and Sociology. Students interested in one of these honors programs should consult the appropriate department for further information.
COMMUNITY EXPERIENTIAL LEARNING PROGRAM

The Community Experiential Learning (CEL) Program offers students the opportunity to explore the relationship between their classroom learning and the broader community. With faculty guidance, students design their own community experiences and receive between one and four academic credit(s) upon completion. Students may choose to work as an intern with a community organization/agency or to explore a community issue through independent research. The community can be as close as a neighborhood just beyond the campus or on the other side of the world.

Students may participate in CEL anytime during their academic career. Good standing at the university and a 2.0 GPA is required for acceptance into the Program. CEL courses are offered throughout the entire year. Ideally, students should plan their CEL projects during the term prior to their implementation, but they can be added at any time during the term. Information may be obtained from Kim Lersch, School of Public Affairs, at klersch@usf.edu.

Institute for the Study of Latin America and the Caribbean (ISLAC)
Location/Phone: FAO 286; (813) 974-3547
Web Address: http://islac.usf.edu
Contact Email: plezama@usf.edu

The mission of ISLAC is to promote the study of Latin America and the Caribbean, in collaboration with USF’s strategic plan for internationalization. ISLAC is an academic unit devoted to interdisciplinary research and teaching focused on economic, social, political and cultural formations in Latin America and the Caribbean and among the Hispanic/Latino populations in North America. ISLAC has 72 affiliate faculty members who are drawn from social science, humanities, arts, and human services fields, including, but not limited to, history, languages and literature, humanities, anthropology, political science, sociology, economics, business, geography, public administration, fine arts, public health, education and behavioral and community sciences.

ISLAC offers a certificate in Latin America and Caribbean Studies open to undergraduate students enrolled in any USF major and a Graduate Certificate in LACS, open to USF graduate students and non-degree seeking students who have already obtained a BA. ISLAC also offers a Masters of Arts (M.A.) in Latin America and Caribbean Studies. All ISLAC academic programs are interdisciplinary, flexible and applied.

The Institute fosters greater knowledge of Latin America and the Caribbean, and Latino issues by providing research support for USF faculty and students, and through partnerships with community organizations and other USF departments to sponsor lectures and cultural events. ISLAC faculty and staff are engaged with USF administration to strengthen community ties and to advance the internationalization of USF programs, research, curricula, faculty and students.

Certificate in Africana Literatures

The College of Arts and Sciences offers this Certificate through the collaboration of the departments of Africana Studies, English, and World Languages. It is designed for majors in all colleges as well as non-degree seeking students who wish to engage in a focused study of Africana literatures, acquire appreciation and knowledge of these literatures, and have that knowledge formally recognized in their academic record. The Certificate is designed to enhance the student’s academic and professional growth.

Students are required to take 18 credit hours. There are twelve hours of core courses and 6 hours of required elective courses. Other courses may be substituted for elective hours with the approval of the Undergraduate Director. Students must declare their intention to acquire the Certificate prior to completing nine hours of program coursework. A grade of B or better is required in core courses and a cumulative overall GPA of 3.0 must be maintained in all work for the Certificate.

Required Core Courses (12 credit hours):
- AFS 3153 African Literature Survey
- AML 3604 African American Literature
- AFA 4430 Afro-Diasporic Literature and Political Movements
- ENG 4013 Literary Criticism

Required Elective Courses (6 credit hours):
- Select any two of the following:
  - AFA 4931 Selected Topics
  - AML 4624 Black Women Writers
  - WST 4410 Postcolonial Women Writers

Other Specifications:
Students are encouraged to make practical experience in the literary discipline an important component of their academic work. Students can enroll for 3 credit hours in the Africana Studies Internship course to fulfill this objective.
Certificate in Asian Studies

The certificate in Asian Studies is designed for majors in any field who wish to gain a broad knowledge of a world area that is of unique importance.

Requirements for the Certificate in Asian Studies:
1. 18 semester hours from the courses listed below. A minimum of 12 credits must be taken at USF.
2. At least two courses must be from Group A (no more than one course from the Languages will be counted for Group A) and at least two courses must be from Group B. (Other relevant courses may be substituted with the approval of the program advisor.)
3. Students must declare their intention to be awarded the certificate by notifying the program advisor at least one full semester prior to graduation.
4. Students who fail to achieve a cumulative 2.50 GPA or higher in the program will be denied the certificate.

Courses credited toward the Asian Studies Certificate:

**Group A**
- **Art:** ARH 4530  ARH 4557  ARH 4547
- **Humanities:** HUM 2271  HUM 2273  HUM 3271  HUM 3273
- **Languages:**
  - CHI 1120  CHI 1121  CHI 2200  CHI 2201
  - CHI 4905  CHI 4930  JPN 1120  JPN 1121
  - JPN 2220  JPN 2221  JPN 4905  JPN 4930
- **Religion:**
  - REL 3318  REL 3335  REL 3340  REL 3330
  - REL 4343  REL 4333  REL 4344

**Group B**
- **Geography:** GEA 3703
- **History:** ASH 2270  HIS 2931*  ASH 3404
- **International Studies:**
  - ASN 3012  ASN 3014  INR 4900 *  INR 4910 *  INR 4931*
- **Political Science:** PO 4930*  CPO 5934  INR 5086

* with approval by the Advisor for the Certificate in Asian Studies

The advisor for the Certificate in Asian Studies is Pamela Anderson; she may be contacted at pkander2@usf.edu.

Certificate in Film Studies

The Certificate in Film Studies is designed for undergraduate students majoring in another field who also desire a concentration in film studies. The certificate program is a carefully structured, interdisciplinary sequence of four courses (12-15 credits) that provides students with a broad introduction to the field of film studies. Receipt of a Certificate in Film Studies is recorded on the student's transcript.

Spanning colleges, departments, and academic disciplines, the Certificate in Film Studies provides students with a balanced and multi-faceted course of study that will focus on the functions and manifestations of film as a medium in contemporary western society.

The proposed course of study grants the student a multi-disciplinary comprehension of film as an aesthetic medium and an understanding of how it describes, and has helped shape, the socio-political situation of western civilizations.

The student and the Coordinator will plan the individual course of study, which requires between 12 and 15 semester hours. Students must declare their intention to be awarded the certificate by notifying the Coordinator at least one full semester prior to graduation. A cumulative GPA of 2.50 in the certificate course work is required. Courses must be taken on a letter-grade basis.

To receive an application and for more information contact Dr. Margit Grieb, Coordinator of the Certificate in Film Studies, at grieber@usf.edu.

The following courses meet the requirements for the certificate (courses not listed below may be included in the program if approved by the Coordinator):

**Core Course (3 credits, required):**
- Students will take 1 core course chosen from the following list:
  - ENG 3115  Introduction to Film: Criticism and Theory
  - FIL 1004  Introduction to Film Studies
  - HUM 1580  Introduction to Film

**Group I (Area Studies):**
- Students will take 3-4 credits of elective courses chosen from the following list:
Certificate in Food Studies

Offered through the Department of Humanities and Cultural Studies, the Certificate in Food Studies is designed for majors in any field who wish to gain an interdisciplinary knowledge of the social, cultural, anthropological, historical, and philosophical study of the production, consumption, and representations of food. Food Studies is a growing field that offers students the opportunity to be genuinely interdisciplinary in their methodological approach, while studying a subject that is of tremendous social, personal, ethical, environmental and global significance.

Students must declare their intention to be awarded the Certificate by notifying the Humanities and Cultural Studies Undergraduate Advisor at least one full semester prior to graduation. A cumulative GPA of 2.5 in the Certificate coursework is required. Courses must be taken on a letter-grade basis.

Required Courses:
Core Course (3 credits):
HUM 2930 Selected Topics: Food, Culture & Society

Group I – Cultural Contexts and Identities:
Students will take 3-4 credits chosen from the following list:
HUM 4930 Selected Topics in Humanities: Food in Film
HUM 4930 Selected Topics in Humanities: Food in Western Culture
HUM 4930 Selected Topics in Humanities: Food in Theory

Group II – Global Ecology & Sustainability:
Students will take 3-4 credits chosen from the following list:
AMS 4804 Major Ideas in America
ANT 4403 Environmental Anthropology
REL 4936 Selected Topics: Religion and Food
SYA 4930 Topics in Sociology: Sustainable Consumption

Group III – Health, Diet, and Cuisine:
Students will take 3-4 credits chosen from the following list:
ANT 4930 Special Topics in Anthropology: Ancient Diets
ANT 4930 Special Topics in Anthropology: Nutritional Anthropology
WST 4930 Selected Topics: Food and Gender
The certificate in India Studies is designed for majors in any field who wish to gain a broad knowledge of Indian culture and society.

**Requirement for the Certificate in India Studies**

A total of 15 semester hours is required for the Certificate in India Studies. Three hours are to be fulfilled with the required core course and the remaining hours are to be fulfilled with electives that have a primary focus on India.

Students must maintain a minimum cumulative 3.00 GPA and a minimum 3.00 GPA in courses applied to the India Studies certificate.

Students in the India Studies Certificate program are strongly encouraged to study abroad on at least one USF in India Program. Courses taken as part of the overseas experience will count toward fulfilling the requirements for the certificate.

**Required Core Course**: 3 credits

- GEA 3194 Regional Geography – India  3

In addition to the above required core course, 4 electives (12 hours) must be taken—two each from Group A and two each from Group B.

**Group A: History, Geography, Society, Politics (6 credit hours):**

Courses that may be applied as electives to the India Studies Certificate are as follows:

- GEO 4930 Selected Topics
- INR 4931 Selected Topics

**Group B: Language, Culture, Philosophy, and Religion (6 credit hours):**

Courses that may be applied as electives to the India Studies Certificate are as follows:

- REL 2300 Introduction to World Religions
- REL 3014 Introduction to Major Religious Texts
- REL 3308 World Religions
- REL 3330 Religions of South Asia
- REL 3335 Gods and Goddesses of India
- REL 4333 Hindu Texts and Contexts
- HUM 3930 Special Topics

**Group C: Study Abroad (6 credit hours) (Optional):**

Students with Study Abroad experience in India may substitute one course each from Group A and Group B for 6 hours. The Advisory Committee will determine which courses taken as part of the overseas experience will count toward fulfilling the requirement for the certificate. Please contact Advisory Committee members: Dr. Gurleen Grewal at grewal@usf.edu, or Dr. Pratyusha Basu at pbsau@usf.edu to determine the study abroad courses that will count.

The certificate in Italian Studies is designed with a broad interdisciplinary perspective.

The certificate encompass courses in several departments in two colleges. The majority of courses will focus on the study of history and culture of the people who inhabit or originated from the Italian peninsula and the islands of Sardinia and Sicily from pre-historic times to the present. In addition, however, offerings will also focus on the Italian diaspora with specific reference to the experiences of people of Italian descent in the many nations in which they settled from the early 19th century to the present.

Students are required to take between 23 and 28 semester hours from a list of courses approved for the certificate. A Faculty Advisory Committee will coordinate the Certificate of Italian Studies. Students may receive credit for courses, not included in the below list, or (if circumstances require it) may substitute a required course with another, by petitioning and if approved by the Advisory Committee.

**Study Abroad:** Students in the Italian Studies Certificate program are strongly encouraged to study abroad for the summer, a semester or a year in the USF in Italy program or in any other accredited program. The Advisory Committee will determine which courses taken as part of the overseas experience will count toward fulfilling the requirements for the certificate.

For additional information, send a message to Dr. Giovanna Benadusi or Dr. Fraser Ottanelli, Coordinators of the Certificate in Italian Studies at itastudies@cas.usf.edu.

**Certificate in Italian Studies**

The history of the geographic expression that today we call Italy is the sum of many particular histories and cultures. Yet, in their diversity and diaspora, the people of Italy have preserved, through time and place, a sense of common identity. For this reason, to understand the complexity of past and present experiences of Italians in the peninsula and of their descendants abroad, the Undergraduate Certificate in Italian Studies is designed with a broad interdisciplinary perspective.

The certificate will encompass courses in several departments in two colleges. The majority of courses will focus on the study of history and culture of the people who inhabit or originated from the Italian peninsula and the islands of Sardinia and Sicily from pre-historic times to the present. In addition, however, offerings will also focus on the Italian diaspora with specific reference to the experiences of people of Italian descent in the many nations in which they settled from the early 19th century to the present.

Students are required to take between 23 and 28 semester hours from a list of courses approved for the certificate. A Faculty Advisory Committee will coordinate the Certificate of Italian Studies. Students may receive credit for courses, not included in the below list, or (if circumstances require it) may substitute a required course with another, by petitioning and if approved by the Advisory Committee.

**Study Abroad:** Students in the Italian Studies Certificate program are strongly encouraged to study abroad for the summer, a semester or a year in the USF in Italy program or in any other accredited program. The Advisory Committee will determine which courses taken as part of the overseas experience will count toward fulfilling the requirements for the certificate.

For additional information, send a message to Dr. Giovanna Benadusi or Dr. Fraser Ottanelli, Coordinators of the Certificate in Italian Studies at itastudies@cas.usf.edu.

**NOTE:** Students may apply a maximum of sixteen credits in the same department toward fulfilling the requirements for the certificate.

I. **Language Requirement:**

Students must demonstrate proficiency in Italian or complete two semesters of language courses chosen from the
following courses.
ITA 1120 Beginning Italian I
ITA 1121 Beginning Italian II
ITA 2200 Intermediate Italian I
ITA 2240 Italian Conversation I
ITA 2241 Italian Conversation II
ITA 3420 Composition
LAT 1120 Beginning Latin I

II. Core Courses:
Each student will take three courses at the 3000 or 4000 level on topics related to Italy in either Art History (ARH),
Italian literature and culture (ITW), or History (HIS). However, only one course will be allowed from each department.

III. Elective Courses:
Students will take 6-8 credits of elective courses related to Italy. Course topics may vary. The following lists some
of the possible courses:

Anthropology:
ANT 4143 European Archaeology
ANT 4930 Special Topics in Anthropology*

Art History:
ARH 4318 Venetian Art [instructor’s consent]

English:
LIT 4930 Special Topics in English Studies*

Government and International Affairs:
POT 4936 Selected Topics in Political Theory*

History:
EUH 3412 Roman Republic
EUH 3413 Roman Empire
HIS 3930 Special Topics*

World Languages:
CLA 3123 Roman Civilization
CLT 3102 Roman Literature in Translation
ITA 1120 Beginning Italian I
ITA 1121 Beginning Italian II
ITA 2200 Intermediate Italian I
ITA 2240 Italian Conversation I
ITA 2241 Italian Conversation II
ITA 3420 Composition
ITA 3470 Overseas Study
ITW 4100 Survey of Italian Literature I
ITW 4101 Survey of Italian Literature II
ITW 4905 Directed Study
LAT 1120 Beginning Latin I

Theatre:
THE 4480 The Theatre of Luigi Pirandello

*Please see an academic advisor for appropriate Special/Selected Topics courses.

Certificate in Latin American and Caribbean Studies

The College of Arts and Sciences offers a Certificate in Latin American and Caribbean Studies for students who
wish to gain an intensive multi-disciplinary understanding of this important area, and have that knowledge formally
recognized in their academic record. This program is open to all USF majors of all colleges.

The certificate requires a minimum of 15 semester hours of courses about Latin America and the Caribbean. One
LAS seminar must be taken in addition to courses in: 1) Anthropology, 2) Geography/Government & International
Studies, 3) History, and 4) Art/Humanities/Literature.

Students must also demonstrate proficiency in a Latin American or Caribbean language (Spanish, Portuguese,
French, or Amerindian language) or have two semesters of course work in any of these languages. Students who
already know a Latin American or Caribbean language are strongly encouraged to learn a second language.
Study abroad programs are encouraged and will be credited toward the Certificate.

The following courses are a sample of courses offered that fulfill the certificate requirements. However, these should
be considered as a partial list only. Students are strongly encouraged to review the Schedule of Classes each semester
for current course offerings at http://web.usf.edu/iac/islac/courses.html.

1) Anthropology
ANT 4162 South American Archaeology
ANT 4163 Mesoamerican Archaeology
ANT 4340 The Caribbean
ANT 4324 Mexico and Central America
ANT 4930 Selected Topics in Anthropology*

2) Geography/Government & International Affairs
CPO 4930 Comparative Government and Politics of Selected Countries or Areas*
INR 4931 Selected Topics*
LAS 3002 Latin America

3) History
AMH 3421 Early Florida
LAH 2020 Latin American Civilization
LAH 2734 Latin American History in Film
LAH 3130 Colonial Latin America
LAH 3200 Modern Latin America
LAH 3430 History of Mexico
LAH 3470 History of the Caribbean
HIS 3930 Special Topics*

4) Art/Humanities/Literature
ARH 4930 Art History; Selected Topics*
HUM 4464 Latin American Culture Since 1492
SPN 3520 Spanish American Civilization
SPN 5135 Colonial Spanish American Literature
SPN 5525 Modern Spanish American Literature
SPT 2524 Women Writers of Latin America
SPW 3030 Introduction to Hispanic Literature
SPW 4131 Survey of Spanish American Literature
THE 4434 Caribbean Theatre

5) Others
ECO 4430 The Economics of Latin America
REL 3375 Issues in Caribbean Religions
See also: Sociology, Economics, Study Abroad.
*Please see academic advisor for appropriate Selected Topics courses.

For information and advice about the certificate program, contact the Institute for the Study of Latin America and The Caribbean (ISLAC), CPR 474, call 974-3547, or send an email to thompson@iac.usf.edu. The program is open to all majors in all colleges. Applications are available at: http://web.usf.edu/iac/islac/undergrad_cert.html. Course offerings can be checked at: http://web.usf.edu/iac/islac/courses.html.

Certificate in Modern Western European Studies

The College of Arts and Sciences offers this certificate through the collaboration of the Departments of English, Geography, History, Humanities and Cultural Studies, Government and International Affairs, World Languages, and Philosophy. It is designed for majors in any field who wish to gain a multi-disciplinary understanding of a part of the world that has shaped much of our civilization and holds great significance for Americans in the present and the future.

The student and the Coordinator will plan the individual course of study, which requires between 21 and 24 semester hours. Students must declare their intention to be awarded the certificate by notifying the Coordinator at least one full semester prior to graduation. A cumulative GPA of 2.5 in the certificate course work is required. Please contact Dr. Christine M. Probes at World Languages, CPR 107, (813) 974-2743, or by e-mail: probes@usf.edu.

1) Language Requirement (6)
Students will take two additional semesters of the foreign language they have taken in fulfillment of the College of Arts and Sciences language requirement.

2) Core Courses (9-10)
Students will take a total of three courses from the following; one of them must be either EUS 3000 or GEA 3500.
EUS 3000 Europe
GEA 3500 Geography of Europe
EUH 3205 History of Nineteenth Century Europe or EUH 3206 History of Twentieth Century Europe
HUM 3251 Studies in Culture: The Twentieth Century
LIT 3144 Modern European Novel
PHM 4331 Modern Political Philosophy

3) Elective Courses (6-8)
A. Overseas Experience

Students should make Western European study and travel an important component of their academic work. They are required to enroll for at least 3 elective credit hours in courses that involve Western European study and travel. These may be taken in one of three ways:

1. as IDS 4955 (Off-Campus Term International Program),
2.* as one or two of the courses listed below as Elective Courses, or
3.* as part of overseas study courses offered by other USF colleges and other universities.

*Elective courses under options (2) and (3) will be chosen in consultation with the Coordinator and an Advisory Committee.

Western European study and travel allows students to concentrate on one of the areas of electives. Students may want to use overseas experience credits to fulfill their summer enrollment requirement.

A structured alternative experience in the United States may be substituted for the Overseas Experience. The Certificate accepts IDS 4955 or 4956 (Off-Campus Term Special Project) or any of the courses listed below as Elective Courses for credit for this requirement. Coordinator, Advisory Committee and student will tailor the experience to fit the student's individual needs.

B. English

ENL 3230 British Literature 1616-1780
ENL 3251 British Literature 1780-1900
ENL 3273 British Literature 1900-1945
ENL 3331 Early Shakespeare
ENL 3332 Late Shakespeare
LIT 3102 Literature of the Western World II Since the Renaissance

C. History

EUH 3142 Renaissance and Reformation
EUH 3202 History of 17th and 18th Century Europe
EUH 3205 History of 19th Century Europe
EUH 3206 History of 20th Century Europe
EUH 3461 German History to 1870
EUH 3462 German History 1870 to Present
EUH 3501 British History to 1688
EUH 3502 British History 1688 to Present
HIS 3930 Special Topics
HIS 4900 Directed Reading

D. Humanities and Cultural Studies

HUM 4437 Italian Renaissance Culture
HUM 4438 Northern Renaissance Culture
HUM 4440 Arts and Letters in the 17th and 18th Centuries
HUM 4442 Arts and Letters of the Romantic Period
HUM 4444 19th Century European Arts and Letters
HUM 4445 20th Century European Arts and Letters
HUM 4905 Directed Study
HUM 4941 Study on Location

E. Government and International Affairs

CPO 4930 Comparative Government and Politics
INR 3955 Overseas Study
INR 4900 Directed Readings
INR 4910 Directed Research
INR 4931 Selected Topics
POS 3931 Selected Topics
POS 4905 Independent Study
POT 4054 Modern Political Theory

F. World Languages

(Note: the student should take courses from the list below after completing the two additional semesters of the foreign language requirement (see I) or, if already advanced in a language, with the instructor's approval. These courses are generally taught in the target language.)

FRENCH
FRE 3234 Reading in French Literature and Culture
FRE 3440 French for Business
FRE 3500 French Civilization
FRW 4100 Introduction to French Novel
FRW 4101 Introduction to French Drama and Poetry
 Certificate in Russian Studies  
This certificate is designed for majors in any field who wish to enhance their understanding of the peoples and cultures of Russia, Eastern Europe, and Central Asia. The College of Arts and Sciences offers this certificate through the collaboration of the Department of World Languages, Government and International Affairs, and History. Courses from other departments may count if their subject matter has significant Russian or Eurasian content. Students will plan their course of study in consultation with the certificate coordinator. They must complete 23-25 semester hours in related coursework (and maintain a GPA of 3.0). Students must declare their intention to be awarded the certificate by notifying the coordinator at least one full semester prior to graduation. Please contact Dr. Kees Boterbloem in the Department of History by e-mail: cboterbl@usf.edu.  

Requirements  
I. Language  
All students are encouraged to develop their language skills to the highest possible level. Non-heritage All students are encouraged to develop their language skills to the highest possible level, whether they are working in a Slavic, Turkic, or other language of the region. Russian language students who are non-native speakers should complete at least RUS 2200 (Russian III), and native speakers should complete one semester of RUS 4900 Analytical Reading. It is very important that students begin developing their language skills as early as possible. Although students only have to declare their intention one semester before graduation, it takes significantly longer to learn a language such as Russian. It is recommended that students take as many years of language study as possible.  

II. Required Core Courses  
A. Two of the following courses:  
   EUH 3575 Imperial Russia  
   EUH 3576 Soviet Union  
   EUS 3022 Russia  
B. One of the following courses:
RUS 3500 Russian Civilization
RUT 3110 Russian Classics in English
RUT 3111 20th Century Russian Literature in English

III. Elective Courses
HIS 3930 Selected Topics*
HIS 4900 Directed Reading*
INR 3018 World Ideologies
INR 4900 Directed Readings*
INR 4910 Directed Research*
INR 3955 Overseas Study*
RUS 2221 Russian IV
RUS 3240 Conversation I
RUS 4241 Conversation II
RUS 2270 Overseas Study
RUS 3470 Overseas Study
RUS 4471 Advanced Overseas Study

*When topic is defined as Russia, Eastern Europe or Eurasia. Courses may be substituted for those listed above with approval of the Coordinator. Students are strongly recommended to take advantage of overseas student opportunities.

Other courses may be substituted for those listed above with approval of a Russian Studies Coordinator. Students are strongly recommended to take advantage of overseas study opportunities.

Certificate in Urban Studies

The Urban Studies Certificate offers students the opportunity to supplement their education and training with a focus on the problems and potentials of the urban world around us. Eighty percent of Americans live in one of the country's nearly 400 major metropolitan areas. Understanding the economic, social, cultural, political and spatial phenomena of urban areas, and how they came to be, is essential if one is to thrive in today's world. The Urban Studies curriculum begins with an interdisciplinary Introduction to Urban Studies and then weaves the multidisciplinary urban offerings into a coherent understanding of urban life. The Urban Studies Coordinator helps each student fashion a curriculum that meets his/her unique intellectual and career needs. The curriculum, through its courses and internship possibilities, focuses on the "real world," thus providing students with a valuable foundation for their career planning and advancement. With the help of the Urban Studies Coordinator, students can design concentrations in urban planning, urban management, community development, community organizing, etc. The Certificate requires a minimum of 24 credits.

Core Courses (9-10 credit hours):
URS 3002 Introduction to Urban Studies
And two of the following:
ANT 4442 Urban Life and Culture
ARC 4784 The City
ECP 3613 Economics of the Urban Environment
GEO 3602 Urban Geography
GEO 4604 Topics in Urban Geography
POS 3142 Introduction to Urban Politics and Government
SYA 4930 Selected Topics*
SYD 4410 Urban Sociology
SYD 4411 Urban Life

Courses may have prerequisites within the discipline.

*Please see academic advisor for the appropriate selected topics course.

Methods Courses (select one of the following (3-4 credits hours):
AFA 4350 African American Community Research
ANT 4285 Oral History
ANT 4495 Methods in Cultural Research
CCJ 3701 Research Methods in Criminal Justice I
POS 3713 Empirical Political Analysis
STA 2122 Social Science Statistics
SYA 3300 Research Methods
SYA 3310 Qualitative Inquiry
GEO 3164C Quantitative Methods
GIS 3006 Computer Cartography
Courses may have prerequisites within the discipline.

**Electives (minimum 12 credit hours):**
Select four from the following list or from the core courses not counted above:

**Africana Studies**
- AFA 4331 Social Institutions and the African-American Community
- AMH 3572 African American History since 1865
- AMS 3700 Racism in American Society
- AFA 4335 Black Women in America
- AFA 4931 Social and Cultural Issues in Black Urban Life

**Anthropology**
- ANT 4316 Ethnic Diversity in the U.S.
- ANT 4701 Applied Anthropology
- ANT 4930 Special Topics in Anthropology

**Communication**
- SPC 3710 Communication and Cultural Diversity
- SPC 4714 Communication, Culture and Community

**Criminology**
- CCJ 3003 Crime and Justice in America
- CCJ 3024 Survey of the Criminal Justice System
- CCJ 3610 Theories of Criminal Behavior
- CCJ 3621 Patterns of Criminal Behavior
- CCJ 4450 Criminal Justice Administration

**Economics**
- ECO 4323 Radical Political Economy
- ECO 4504 Public Finance
- ECP 3201 Economics of Women and Work
- ECP 3203 Labor Economics
- ECP 3302 Environmental Economics
- ECP 3530 Economics of Health

**Geography**
- EVR 2861 Introduction to Environmental Policy
- GEO 4471 Political Geography
- GEO 4502 Economic Geography
- GEO 4700 Transportation Geography
- URP 4052 Urban and Regional Planning

**History**
- AMH 3423 Modern Florida
- AMH 3500 American Labor History
- AMH 3530 Immigration History
- AMH 3572 African American History since 1865

**Political Science**
- POS 2112 State & Local Government and Politics
- POS 3182 Florida Politics and Government
- POS 5155 Issues of Urban Government and Politics

**Public Administration**
- PAD 3003 Introduction to Public Administration
- PAD 4144 Nonprofit Organizations and Public Policy
- PAD 4204 Public Financial Administration
- PAD 5333 Concepts & Issues in Public Planning
- PAD 5807 Administration of Urban Affairs

**Social Work**
- SOW 3210 The American Social Welfare System

**Sociology**
- SYO 3120 Sociology of Families
- SYO 3530 Social Inequalities in a Global Society
- SYD 3700 Racial and Ethnic Relations
- SYP 4111 Identity and Community
- SYP 4420 Consumer Culture
- SYP 4510 Sociological Aspects of Deviance
- SYP 4530 Sociology of Juvenile Delinquency

4) Internships (one of the following can be substituted as an ELECTIVE)
Health Professions

The University of South Florida is an excellent location to prepare for a career in the health professions. The Veterans Administration Hospital, University of South Florida Medical Center, Shriner’s Hospital for Children, H. Lee Moffitt Cancer Center and Research Institute, University of South Florida Mental Health Institute, and Florida Hospital Tampa are within walking distance of the campus and offer students excellent opportunities for observation, research, and experience.

The College of Arts and Sciences offers programs designed to prepare students for admission to allopathic medicine (M.D.), osteopathic medicine (D.O), chiropractic medicine, dentistry, optometry, podiatry, veterinary medicine, pharmacy, physician assistant, and physical therapy. Most of these professions require four years of pre-professional preparation followed by four years of training in a professional school. A few well-prepared students with exceptional qualifications may be admitted to some professional schools as early as the completion of the junior year of pre-professional work. The pre-professional programs do not meet requirements for a degree; therefore, students must choose a major in addition to fulfilling their pre-professional requirements. Most pre-professional students major in biology, biomedical sciences, or chemistry because of their interests in the health sciences, and the considerable overlap between the pre-professional curriculum and the degree requirements for those majors. Entrance into all professional schools or programs is competitive, and students should begin establishing a record of excellence with the first semester at USF. Furthermore, it is essential that students pursue courses developing a sense of understanding of cultural and humane values as well as basic social problems. Students should also have some clinical and/or volunteer experience related to the medical field.

Students considering one of the health professions should contact the College of Arts and Sciences during the first semester at USF to declare their interest in a health professions program.

For specific information about the following programs, please see our health professions website at: http://www.cas.usf.edu/health_professions.

- For information regarding the USF’s Medical program, please visit: http://health.usf.edu/medicine/home.html.
- For information regarding USF’s Physical Therapy program, visit: http://health.usf.edu/medicine/dpt/index.htm.
- Veterinary Medicine
- For information regarding the USF’s Pharmacy program, visit: http://health.usf.edu/nocms/pharmacy/.

Requirements for Health Professions Schools

These courses prepare students for admission to professional schools of chiropractic medicine, dentistry, allopathic medicine, osteopathic medicine, podiatric medicine, optometry, veterinary medicine, and pharmacy. All of these professional schools have in common the following course requirements, which should be completed by the end of the junior year, the usual time of application:

**Biology**
- BSC 2010, 2010L Biology I: Cellular Processes
- BSC 2011, 2011L Biology II: Diversity

**Chemistry**
- CHM 2045, 2045L General Chemistry I
- CHM 2046, 2046L General Chemistry II
- CHM 2210, 2210L Organic Chemistry I
- CHM 2211, 2211L Organic Chemistry II

**Physics**
- PHY 2053, 2053L General Physics I
- PHY 2054, 2054L General Physics II

In addition to these requirements it is generally expected that pre-professional students will complete two semesters of English and mathematics appropriate for their degree. Some schools require calculus and some require one or two courses in biochemistry. CLEP credit usually is not accepted by professional schools, and some schools do not accept AP or IB and have specific restrictions for accepting DE credits. Students should check with the school of their choice regarding acceptable acceleration credit.

Requirements for B.S. in Biomedical Sciences for Early Admission Students

Early admission to professional school is exceptional with today’s competitive applicant pool; however, a few
students may be admitted prior to completion of the bachelor's degree through special programs. There are no State Mandated Common Prerequisites for this degree program.

Students planning on early admission should begin studies at a 4-year institution as professional schools require at least 1 year of studies at a university prior to application. Depending upon the professional school, additional science courses may be required or strongly recommended as indicated in the preceding sections. Exposure to a health profession is also strongly recommended.

Students who are admitted to an accredited U.S. medical or dental school after completing their junior year at the University of South Florida may be awarded the B.S. degree in Biomedical Sciences from the College of Arts and Sciences subject to the following conditions:

1. Transfer of a minimum of 30 semester hours of science courses from an accredited medical or dental school.
2. Completion of a minimum of 90 semester hours of credit with a minimum grade point average of 2.00 prior to transfer to the medical or dental school.
3. Completion of the following courses with at least a C in each course:

**Biology**
- BSC 2010, 2010L Biology I: Cellular Processes
- BSC 2011, 2011L Biology II: Diversity
- MCB 3020C General Microbiology

**Plus** two of the following biology courses, including at least one with a laboratory (minimum 7 semester hours):
- PCB 3023, 3023L Cell Biology (lab optional)
- PCB 3063, 3063L General Genetics (lab optional)
- MCB 4502 Virology
- MCB 4115 Determinative Bacteriology
- MCB 5815 Medical Mycology
- PCB 4064 Experimental Genetics
- PCB 4723 Animal Physiology
- PCB 4723L Animal Physiology Lab
- PCB 5235 Principles of Immunology
- ZOO 3323C Anatomy of Chordates
- ZOO 3713 Comparative Vertebrate Anatomy
- ZOO 4603 Animal Embryology
- ZOO 4753C Histology

**Chemistry**
- CHM 2045, 2045L General Chemistry I
- CHM 2046, 2046L General Chemistry II
- CHM 2210, 2210L Organic Chemistry I
- CHM 2211, 2211L Organic Chemistry II
- BCH 3023 Introductory Biochemistry

**Physics**
- PHY 2053, 2053L General Physics I
- PHY 2054, 2054L General Physics II

**Mathematics**
- MAC 2241, MAC 2311, or MAC 2281 Calculus
  - Plus either the second semester of a calculus sequence
  - OR
  - STA 2023 Introductory Statistics I

4. Completion of the University's Foundations of Knowledge and Learning Requirements.
5. Completion of the last 30 hours prior to transfer to a medical or dental school in residence at the University of South Florida.
6. Application for the degree must be received no later than two years from the date of entrance into the professional school.

Students admitted to professional schools of veterinary medicine, optometry, physical therapy, or podiatric medicine prior to completion of their degree may also be able to transfer courses from the professional school and receive their bachelor's degree. However, approval of the courses to be transferred must be obtained on an individual basis from the College of Arts and Sciences, and in some cases it may be necessary for students to complete more than 90 hours prior to leaving the University of South Florida.

**Teacher Education Program**

The College of Arts and Sciences offers B.A. and M.A. degree programs for secondary school teachers and the M.A. degree for junior college teachers.
B.S. Degree Programs for Secondary School Teachers

The College of Arts and Sciences, in cooperation with the College of Education, offers degree programs in Mathematics, Biology, Chemistry, Physics, English, Foreign Language and Social Science Education. Prospective students should consult the College of Education portion of this catalog under the heading, Department of Secondary Education for degree requirements.

- **AFRICANA STUDIES (AFA) (CIP = 05.0201)**

  **TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

  Africana Studies is a liberal arts program offering a Bachelor of Arts in Africana Studies, a Minor in Africana Studies and a Certificate in Africana Literatures. This program provides all students with the opportunity to study the history, culture and lived experiences of people of African descent--on the African continent and throughout the world. Students also study the influence of Africa and people of African descent on the world at-large. The Africana Studies curriculum also explores the social construction of race and racism and encourages the development of critical thinking skills while also challenging students to explore new ideas, seek new connections and become actively engaged in the global community.

  Admission to the Africana Studies major, minor, or certificate is open to all students who have been duly admitted to the University of South Florida.

  **Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution**

  There are no State Mandated Common Course Prerequisites for this major.

  **Requirements for the Major in Africana Studies (B.A.)**

  The major in Africana Studies consists of a minimum of 36 hours, which include five core courses (15 hours) and seven electives (21 hours)

  **Required Core Courses (15 credit hours):**

  - AFA 2000 Introduction to the Black Experience in Africa and its Diaspora
  - AFH 3100 African History to 1850
  - AFH 3200 African History since 1850
  - AMH 3571 African-American History to 1865
  - AMH 3572 African-American History since 1865

  **Electives (21credit hours):**

  Students will take seven additional elective courses from the following list of courses:

  - AFA 4150 Africa and the United States
  - AFA 4335 Black Women in America
  - AFA 4350 African American Community Research
  - AFA 4400 Afro-Diasporic Literature and Political Movements
  - AFA 4500 Slavery in the Americas and the Caribbean
  - AFA 4900 Directed Readings
  - AFA 4335 Black Women in America
  - AFA 4350 African American Community Research
  - AFA 4931 Selected Topics in Africana Studies
  - AFS 2250 Culture and Society in Africa
  - AML 3604 African American Literature
  - AML 4624 Black Women Writers
  - AMS 3700 Racism in American Society
  - PHM 4120 Major Black Thinkers

  Other electives may become available to students. Please see the undergraduate advisor or the Africana Studies Undergraduate Director for further information.

  **Requirements for the Minor in Africana Studies (AFA)**

  The minor in Africana Studies consists of a minimum of 18 hours, which include three core courses (9 hours) and three electives (9 hours).

  **Required Core Courses (9 credit hours):**

  - AFA 2000 Introduction to the Black Experience in Africa and its Diaspora
  - AFH 3100 African History to 1850 or AFH 3200 African History since 1850
  - AMH 3571 African-American History to 1865 or AMH 3572 African-American History since 1865

  **Elective Courses (9 credit hours):**

  Students will complete the minor requirements with three additional Africana Studies elective courses.
Africana Studies Faculty
Chairperson: C. Rodriguez; Associate Professors: E. Kissi; K. Simeon-Jones; Assistant Professors: E.D. Duke, A. Khan; Instructor: L. Lahey; Other Faculty: C. Smith, J.A. Maxwell-Simmons, S. Moore, F.U. Ohaegbulam.

• ANTHROPOLOGY (ANT) (CIP = 45.0201)
  TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Anthropology aims at comprehending people as biological and social beings. It is concerned with all forms of people through time and space. One consequence of this broad-ranging view is the presence within anthropology of four branches: archaeology, biological anthropology, cultural anthropology, and linguistics. Exposure to anthropological information and the cross-cultural perspective produces heightened sensitivity in the student to the world about him/her. This helps the student to adopt an intellectual posture of disciplined skepticism with respect to any scheme that purports to define and account for regularities in human life.

The Department of Anthropology is concerned with applying anthropological knowledge, theory, method, and perspectives to problems of contemporary society. Illustrative areas of activity include human services needs assessment, program planning and evaluation, public archaeology, social and environmental impact assessment, public policy analysis, and applied linguistics.

In 1986 the department instituted an honors program to provide its best students with an opportunity to engage in a significant academic experience. Outstanding seniors may participate in a year-long course of study and original research in an area of their choosing under the guidance of a faculty mentor.

Students majoring in other fields may find anthropology coursework an exciting and valuable supplement to their primary academic interest. A minor in anthropology has been developed with this purpose in mind. The minor program is structured to allow the student maximum flexibility in course selection within a broadly defined progression of anthropological concerns. Thus, the student is able to tailor a minor in anthropology to best suit special wants and needs in the context of an overall curriculum.

For additional information about the department please visit our web site: http://anthropology.usf.edu/.

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution
The State of Florida has identified common course prerequisites for the Anthropology major. These courses must be completed with a minimum grade of C before the degree is granted. If the courses are not transferred in, they may be taken at USF. Following are the courses:
ANT XXXX Two Introductory Courses in Anthropology (ANT prefix) 6 credit hour

Requirements for the Major in Anthropology (B.A.)
Beyond the recommended prerequisites listed above, the major in Anthropology consists of a minimum of 36 credit hours. In order to graduate, students must maintain an average best attempt 2.5 GPA in all courses counted toward the major. Majors are required to complete a minimum of 20 hours of 4000-level elective coursework, including at least one course from each subfield. A minimum of three (3) of these 20 credits must be selected from a list of designated methods courses. Methods courses may also be counted toward the subdivision requirement.

Required Core Courses (16 credit hours):
ANT 2410 Cultural Anthropology
ANT 2511 Biological Anthropology
ANT 2511L Biological Anthropology Laboratory
ANT 3101 Archaeology
ANT 3610 Anthropological Linguistics
ANT 4034 Theories of Culture

Elective Courses (17 credit hours):
Students must choose at least one course from each subfield listed below.

Archaeology Subfield
ANT 4142 Old World Archaeology
ANT 4143 European Archaeology
ANT 4147 Environmental Archaeology
ANT 4153 North American Archaeology
ANT 4158 Florida Archaeology
ANT 4165 South American Archaeology
ANT 4163 Mesoamerican Archaeology
ANT 4172  Historical Archaeology
ANT 4180  Laboratory Methods in Archaeology
ANT 4181  Museum Methods
ANT 4183C Archaeological Science
ANT 4012  Fantastic Archeology
ANT 4824  Archaeological Field Methods

Biological Anthropology Subfield
ANT 4520C Forensic Anthropology
ANT 4586  Prehistoric Human Evolution
ANT 4516  Human Variation

Cultural Anthropology Subfield
ANT 4014  Anthropology of American Culture
ANT 4231  Folklore
ANT 4241  Anthropology of Religion
ANT 4285  Oral History
ANT 4302  Gender in Cross-Cultural Perspectives
ANT 4312  North American Indians
ANT 4316  Ethnic Diversity in the United States
ANT 4323  Mexico and Central America
ANT 4340  The Caribbean
ANT 4390  Visual Anthropology
ANT 4401  Exploring Cross-Cultural Diversity
ANT 4403  Environmental Anthropology
ANT 4432  The Individual and Culture3
ANT 4442  Urban Life and Culture
ANT 4462  Health, Illness, and Culture
ANT 4495  Methods in Cultural Research
ANT 4620  Language and Culture
ANT 4701  Applied Anthropology
ANT 4750  Language and Social Interaction
ANT 4935  Rethinking Anthropology
URS 3002  Introduction to Urban Studies

Methods Courses (3 credit hours):
ANT 4180  Lab Methods in Archaeology
ANT 4181  Museum Methods
ANT 4183C Archaeological Science
ANT 4285  Oral History
ANT 4390  Visual Anthropology
ANT 4495  Methods in Cultural Research
ANT 4520C Forensic Anthropology
ANT 4824  Archaeological Field Methods
ANT 4932 Honors Seminar

Depending upon the specific topic, ANT 4930 Special Topics, may count toward any of the subdivisions and/or the methods requirement.

Anthropology majors are urged to become competent readers and speakers of a relevant modern foreign language (which may include American Sign Language). They are also urged to enhance their English reading, writing, speaking and critical thinking capabilities and develop their skills in computational, statistical and other forms of quantitative analysis at every opportunity. Students are encouraged to fulfill General Education and Exit requirements with courses relevant to their interests in anthropology whenever possible. In pursuit of all these goals, they should meet with the department’s undergraduate advisor at least once each semester to discuss such topics as academic progress, future course plans, Anthropology’s Honors Program, summer field schools, job opportunities, graduate education and professional careers in anthropology.

Requirements for the Minor in Anthropology (ANT)
The minor in Anthropology consists of a minimum of 18 credit hours with a C average (2.0). Students will normally progress through these areas in the order listed below, selecting courses prerequisite or otherwise appropriate to courses desired in subsequent areas. Exceptions to this pattern must be approved by the department’s undergraduate
advisor. Students are urged to consult with an advisor to create the most beneficial set of courses.

Required Intermediate-level Core Courses (12 credit hours):

- ANT 2410 Cultural Anthropology
- ANT 2511 Biological Anthropology
- ANT 3101 Archaeology
- ANT 3610 Anthropological Linguistics

Elective Courses - 4000-level elective courses (6 credit hours)

As described above in the listing of elective courses in archaeology, biological anthropology and cultural anthropology.

Requirements for the Anthropology Honors Program

The purpose of the Honors Program is to provide outstanding Anthropology undergraduates with advanced, individually tailored training in areas of anthropology of interest to them. The program, operating independently of the major itself, involves a year of coursework and research culminating in the writing of an Honors thesis. Students in the second semester of their junior year, prior to completion of 90 semester hours, may apply to the program, which begins in the fall semester.

Admission is competitive, based on the student’s overall academic record:
- minimum overall 3.25 GPA,
- 3.5 GPA for USF Anthropology coursework,
- a two-page, personal statement indicating research interests, and
- a letter of recommendation from a member of the Department of Anthropology.

Successful completion of the program requires:
- maintenance of an overall 3.25 GPA,
- maintenance of a 3.5 GPA in the major,
- completion of ANT 4932 Honors Seminar, with a grade of B or better,
- completion of ANT 4970 (3) (Honors Thesis) with a grade of “S,”
- and completion of all other requirements for graduation.

See the Anthropology Department undergraduate advisor for further information and application forms.

Anthropology Faculty


Department of Cell Biology, Microbiology & Molecular Biology

Department of Integrative Biology

The departments of Cell Biology, Microbiology and Molecular Biology and Integrative Biology offer seven programs of study (majors) within the Biology discipline that are preparatory for careers in such areas as teaching, agriculture, medicine, dentistry, conservation, and biotechnology or for post-baccalaureate study in the various life sciences. Three of the majors—Cell and Molecular Biology (CAM); Microbiology (MIC) and Health Sciences (HLS) are offered by the Department of Cell Biology, Microbiology and Molecular Biology. The Department of Integrative Biology offers the following majors: Environmental Biology (ENB); Environmental Microbiology (EMB); Integrative Animal Biology (IAB); Marine Biology (MRN).

The degree in Microbiology (MIC) is offered by the Department of Cell Biology, Microbiology and Molecular Biology. The MIC degree provides students with a broad range of courses necessary to qualify for certification by the National Registry of Microbiologists, American Society of Microbiology, for employment in microbiology and related fields. This degree is preparatory for careers in teaching, medicine, biotechnology, and post-baccalaureate study in related life sciences. Students interested particularly in environmental microbiology may also elect the Environmental Microbiology (EMB) major offered within the Department of Integrative Biology. Students completing the Environmental Microbiology major can qualify for certification by the National Registry of Microbiologists, American Society of Microbiology.

In addition to a set of courses in biology, students must have a thorough preparation in other areas of natural sciences to be competitive for jobs or for further study beyond the baccalaureate. A modern biology curriculum is built on a foundation of mathematics, chemistry and physics. Students should study the requirements listed below and then make maximum use of the vigorous advising program maintained by the departments in structuring their programs.
Minimum requirements for Majors

A student must receive a C- grade or better in all Department of Integrative Biology and Department of Cell Biology, Microbiology, and Molecular Biology courses and supporting courses in the natural sciences, except if they are used as free elective courses. This specification applies to both USF and transfer courses.

Please note that some supporting science courses may require a grade of C or better in order to meet the prerequisite requirements for course sequences.

All students majoring in one of the programs offered through the departments of Integrative or Cell Biology, Microbiology and Molecular Biology and entering USF for the first time, in Fall 2009 or later, who subsequently earn three (3) D and/or F grades in USF coursework for their major and/or supporting coursework will be required to change to majors more appropriate to their goals and academic performances. Those majors may not include any conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

All continuing USF students who entered USF prior to Fall 2009 and who have not earned any D or F grades in USF major coursework or supporting coursework by the beginning of Fall 2009, will also be allowed three(3) D and/or F grades in subsequent terms before being required to choose another major more appropriate to their goals and academic performances, and not including any conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

All continuing USF students who enter USF prior to Fall 2009 and who have earned greater than or equal to one (1) D or F grade in USF coursework for their major coursework or supporting coursework by the beginning of Fall 2009, will be allowed only two (2) more D and/or F grades in subsequent semesters before being required to choose other majors more appropriate to their goals and academic performances, and not including any majors conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology and Molecular Biology.

Grade Forgiveness will NOT apply to the mandated requirement of changing major.

Once a student has matriculated to USF Tampa, he/she is expected to take 100 percent of the required major coursework at USF Tampa.

• CELL AND MOLECULAR BIOLOGY (CAM) (CIP = 26.0101) (Track 1 of 2)
TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of C- is the minimum acceptable grade.

- BSC X010/X010L Biology I with Lab or BSC X010C or BSC X040/040L
- BSC X011/X011L Biology II with Lab or BSC X2011C or BSC X041/X041L or ZOO X0101/0101L or BOT X010/X010L or BOT X013/X013L
- CHM X045/X045L General Chemistry I with Lab or CHM X045C or CHM X040 and CHM X041
- CHM X046/X046L General Chemistry II with Lab or CHM X046C
- CHM X210/X210L Organic Chemistry I with Lab and CHM X211/X211L or (CHM X210C and X211C) or (PHY X053/X053L and PHY X054/X054L) or (PHY X048/X048L and PHY X049/X049L)
- MAC X311 Calculus I or MAC X233 or MAC X253 or MAC X281 or MAC X241
- MAC X312 Calculus II or MAC X282 or MAC X234 or STA X023 or STA X024 or STA X321

REQUIREMENTS FOR THE MAJOR IN CELL AND MOLECULAR BIOLOGY (B.S.)
Minimum: 40 credit hours

1. Required Courses (29 credit hours):
   a. BSC 2010  Biology I Cellular Processes
   BSC 2010L  Biology I Cellular Processes Laboratory
   BSC 2011  Biology II Diversity
   BSC 2011L  Biology II Diversity Laboratory
   b. PCB 3063  General Genetics
   PCB 3063L  General Genetics Laboratory
   PCB 3043  Principles of Ecology
   PCB 3043L  Principles of Ecology Laboratory
   c. PCB 3023  Cell Biology
   PCB 3023L  Cell Biology Laboratory
   MCB 3410  Cell Metabolism
PCB 4024 Molecular Biology of Cell
PCB 4026 Molecular Biology of Gene

2. Elective courses (minimum of 11 credit hours):
   PCB 3712 General Physiology
   PCB 4843 Principles of Neuroscience
   ZOO 4753C Human Histology and Molecular Pathology of Disease
   ZOO 4694 Developmental Biology
   MCB 3020C General Microbiology
   MCB 4503 Virology
   BOT 4434C Mycology
   PCB 4663 Human Genetics
   BCH 3053 Introductory Biochemistry
   BCH 3023L Basic Biochemistry Laboratory
   BSC 5420 Genetic Engineering
   BSC 4458 Bioinformatics
   PCB 4234 Principles of Immunology
   PCB 4671 Molecular Evolution
   PCB 4843 Principles of Neuroscience
   PCB 5616 Molecular Phylogenetics
   PCB 4522C Experimental Genetics and Cell Biology
   BSC 4910 Undergraduate Research
   BSC 4933 Selected Topics
   BSC 4905 Independent Study

   A maximum of 4 credit hours of Undergraduate Research (BSC 4910) may be applied. A minimum of 20 credits
   hours of courses must be taken in residency and be applicable to the major.

3. Supporting Courses in the Natural Sciences (minimum 34 credit hours:
   a. CHM 2045 General Chemistry I
      CHM 2045L General Chemistry I Laboratory
      CHM 2046 General Chemistry II
      CHM 2046L General Chemistry II Laboratory
   b. CHM 2210 Organic Chemistry I
      CHM 2210L Organic Chemistry I Laboratory
      CHM 2211 Organic Chemistry II
      CHM 2211L Organic Chemistry II Laboratory
   c. MAC 2241 Life Sciences Calculus I and MAC 2242 Life Sciences Calculus II
      or
      MAC 2281 Engineering Calculus I and MAC 2281 Engineering Calculus II
      or
      MAC 2311 Calculus I and MAC 2312 Calculus II
      STA 2023 Introductory Statistics I may be substituted for any Calculus II
   d. PHY 2048/2048L General Physics II and PHY 2094/2049L General Physics II
      or
      PHY 2053/2053L General Physics II and PHY 2054/2054L General Physics II

4. Meet all College and University requirements.

Accelerated Non-Thesis B.S./M.S. Program in Biology

   This program allows B.S. majors to take graduate courses for the elective part of the Biology degree and apply
   them to a non-thesis M.S. degree in Biology. Successful students will be able to earn the M.S. degree in two
   additional semesters beyond the completion of the B.S. degree.

   This accelerated program shares 12 credits between already existing degrees/concentrations:
   B.S. in Biology, Concentration in Cell and Molecular Biology (submitted)
   M.S in Biology, Concentration in Cell and Molecular Biology (non-thesis option)

Target students and expected outcomes

   This program will appeal to the more competitive Biology majors who would benefit professionally from having the
   M.S. when they enter the job market but do not want to commit to the longer time a thesis M.S. or a Ph.D. program
   takes to complete. Professions that do not require bench laboratory experience but desire the broadened knowledge
   base are targeted. Graduates from this program would be ideally suited for health professions, technology based
   industry, education and government. We also expect that some students will be interested in doctoral education in the
   biological or biomedical areas.
Description and Requirements

Biology majors who have completed the following courses may apply to this program:

- PCB 3023 Cell Biology
- PCB 3063 General Genetics
- MCB 3410 Cell Metabolism
- PCB 4024 Molecular Biology of the Cell
- PCB 4026 Molecular Biology of the Gene

Students who have been admitted to the program but subsequently fail to achieve a 3.0 GPA in the last 60 hours of their B.S. degree, or who do not complete at least 30 of their last 60 hours at USF, will be dismissed from the program.

Once accepted, students must meet with BioAdvise (the advising office for biological sciences within the College of Arts and Sciences) to prepare an action plan to complete the B.S./M.S. accelerated program. This requires them to take all the courses required for the B.S. in Biology: Concentration in Cell and Molecular Biology. Students may take up to 12 credits of graduate courses as electives in Cell, Molecular and Microbiology and apply those courses to both the B.S. and M.S. degrees. They will not be admitted as graduate students until they have completed their B.S. degree and met all the requirements for admission to Cell, Molecular and Microbiology graduate students.

The action plan should include a schedule of coursework to complete their B.S. degrees and a date in their last year in the B.S. program to take the GRE.

Application materials are the same as the M.S. in Biology:

1. Two official transcripts of undergraduate work from other institutions. Applicants need not supply USF transcripts.
2. Three letters of recommendation
3. A brief essay stating your professional goals
4. GRE scores must be sent to USF directly from the testing agency (USF institution code is 49582)

Graduate Degree Requirements

Students admitted into the M.S. portion of the program must complete all the requirements for the M.S. degree (non-thesis) within three semesters of admission. The requirement is 30 hours of graduate work with at least 16 of these hours completed at the 6000 level; 26 hours must be formally structured courses; and at least 15 hours must be in Cell, Molecular and Microbiology courses. Students will be required to take 3 core courses from the list below as part of these 26 hours. Of the required 26 hours, 9 hours will be derived from the core-Cell, Molecular and Microbiology graduate courses listed below (see associated curriculum). These requirements can be partially met by up to 12 hours of graduate courses taken as undergraduates. Any graduate class taken outside of Cell, Molecular and Microbiology must be approved by the Cell, Molecular and Microbiology Graduate Director. Students should be aware that a B grade or better is required for every graduate class applied to the MS portion of their degree. In addition, students will be required to pass an oral qualifying exam based on a review paper submitted in their final semester. Students must form a committee as part of their action plan to complete their graduate work. This committee will be comprised of at least 3 Cell, Molecular and Microbiology faculty, and will serve as the examination committee for the review paper required as part of the MS portion of their degree. Upon approval of that paper, students must successfully complete a comprehensive oral exam by their committee.

Timeline and benchmarks:

1. Completion of prerequisite upper division courses and application to the accelerated program. Typically students will be in their junior year.
2. Acceptance into the program and an action plan within a semester of application.
3. Students will take up to 12 credits of graduate credit in Cell, Molecular and Microbiology courses following acceptance into the program. Typically these courses will be taken in the latter half of the junior year and in the senior year. BioAdvise will monitor the progress of the students and ensure they follow their action plan. Students who do not complete at least 9 hours of graduate work by graduation will be dropped from the accelerated M.S. program.
4. GRE exams will be taken in a timely manner so scores will be available for admission to the M.S. portion of the program. Students who do not complete the GRE in time will not be admitted to the accelerated M.S. program.
5. Students admitted to the accelerated program must form a committee prior to the beginning of their first semester in the M.S. portion of the program and must continue to follow the action plan which will be monitored by BioAdvise.
6. Students admitted to the accelerated M.S. program must complete the requirements within three semesters or will be dismissed from the program.

Year 1

BSC 2010 Cellular Processes
**COLLEGE OF ARTS AND SCIENCES**

**UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCB 3410 Cell Metabolism</td>
<td>PCB 4024 Molecular Biology of the Cell</td>
<td>Nine (9) credit hours of 5000- or 6000-level elective courses</td>
<td>Eighteen (18) hours of graduate coursework - 9 hours of which must be derived from the list below:</td>
</tr>
<tr>
<td>PCB 3063 General Genetics</td>
<td>PCB 4026 Molecular Biology of the Gene</td>
<td></td>
<td>BSC 6932 Selected Topics in Biology</td>
</tr>
<tr>
<td>PCB 3063L General Genetics Laboratory</td>
<td>Three (3) credit hours of 5000-level elective structured course</td>
<td></td>
<td>PCB 6525 Molecular Genetics</td>
</tr>
<tr>
<td>PCB 3023 Cell Biology</td>
<td>PCB 6236 Advanced Immunology</td>
<td></td>
<td>PCB 6236 Advanced Immunology</td>
</tr>
<tr>
<td>PCB 3023L Cell Biology Laboratory</td>
<td>Four (4) credit hours of non-structured courses (seminar, independent study, laboratory research)</td>
<td></td>
<td>Four (4) credit hours of non-structured courses (seminar, independent study, laboratory research)</td>
</tr>
<tr>
<td>MCB 3032C General Microbiology</td>
<td>Oral exam and review paper done at the end of Year 5</td>
<td></td>
<td>Oral exam and review paper done at the end of Year 5</td>
</tr>
</tbody>
</table>

**Comprehensive Oral Qualifying Examination.**

A final comprehensive oral examination is required for all master's students. This examination is open to all departmental faculty. Students must take their comprehensive exam within two years of matriculation and the exam is normally taken after the completion of all formal course work. Thesis students must take the examination at least one semester before the thesis is presented. Any graduate work counted toward the requirement for the M.S. degree must be completed within five (5) years after matriculation.

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**ENVIRONMENTAL BIOLOGY (ENB) (CIP = 26.0101) (Track 1 of 2)**

**TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

**Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution**

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of C- is the minimum acceptable grade.

- BSC X010/X010L Biology I with Lab or BSC X010C or BSC X040/040L
- BSC X011/X011L Biology II with Lab or BSC X2011C or BSC X041/X041L or ZOO X0101/0101L or BOT X010/X010L or BOT X013/X013L
- CHM X045/X045L General Chemistry I with Lab or CHM X045C or CHM X040 and CHM X041
- CHM X046/X046L General Chemistry II with Lab or CHM X046C
- CHM X210/X210L Organic Chemistry I with Lab and CHM X211/X211L or (CHM X210C and X211C) or (PHY X053/X053L and PHY X054/X054L) or (PHY X048/X048L and PHY X049/X049L)
- MAC X311 Calculus I or MAC X233 or MAC X253 or MAC X281 or MAC X241
- MAC X312 Calculus II or MAC X282 or MAC X234 or STA X023 or STA X024 or STA X321

**REQUIREMENTS FOR THE MAJOR IN ENVIRONMENTAL BIOLOGY (B.S.)**

Minimum: 40 credit hours

1. **Required Courses (25-26 credit hours)**
   - **Biology Core Curriculum (16 credit hours):**
     a. BSC 2010 Biology I Cellular Processes
     b. BSC 2010L Biology I Cellular Processes Laboratory
     c. BSC 2011 Diversity
     d. BSC 2011L Diversity Laboratory
     e. PCB 3063 General Genetics
     f. PCB 3063L General Genetics Laboratory
     g. PCB 3023 Cell Biology
     h. PCB 3023L Cell Biology Laboratory
     i. MCB 3410 Cell Metabolism
     j. PCB 4024 Molecular Biology of the Cell
     k. PCB 4026 Molecular Biology of the Gene
     l. Three (3) credit hours of 5000-level elective structured course
     m. BSC 6932 Selected Topics in Biology
     n. PCB 6525 Molecular Genetics
     o. PCB 6236 Advanced Immunology
     p. Four (4) credit hours of non-structured courses (seminar, independent study, laboratory research)
     q. Oral exam and review paper done at the end of Year 5

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COLLEGE OF ARTS AND SCIENCES

1. Required Courses (28-29 credit hours):
   - BSC 2011 Biology II Diversity
   - BSC 2011L Biology II Diversity Laboratory
   - PCB 3043 Principles of Ecology
   - PCB 3043L Principles of Ecology Laboratory
   - PCB 3063 General Genetics
   - PCB 3063L General Genetics Laboratory
   - BSC 4052 Conservation Biology
   - PCB 4674 Organic Evolution
   - Choose one of:
     - BOT 4601 Plant Ecology
     - BSC 4933 Selected Topics in Biology
     - PCB 5307 Limnology
     - ZOO 5555C Marine Animal Ecology

2. Elective Courses (minimum 14-15 credit hours):
   - Integrate Biology or Cell, Molecular and Microbiology courses, with the exception of those intended for non-majors.
   - A maximum of 4 credit hours of Undergraduate Research (BSC 4910) may be applied. A minimum of 20 credit hours of courses must be taken in residency and be applicable to the major.

3. Supporting Courses in the Natural Sciences (minimum 34 credit hours):
   - a. CHM 2045 General Chemistry I
      - CHM 2045L General Chemistry I Laboratory
      - CHM 2046 General Chemistry II
      - CHM 2046L General Chemistry II Laboratory
   - b. CHM 2210 Organic Chemistry I
      - CHM 2210L Organic Chemistry I Laboratory
      - CHM 2211 Organic Chemistry II
      - CHM 2211L Organic Chemistry II Laboratory
   - c. MAC 2241 Life Sciences Calculus I and MAC 2242 Life Sciences Calculus II
      - or
      - MAC 2281 Engineering Calculus I and MAC 2281 Engineering Calculus II
      - or
      - MAC 2311 Calculus I and MAC 2312 Calculus II
      - STA 2023 Introductory Statistics I may be substituted for any Calculus II
   - d. PHY 2048/2048L General Physics II and PHY 2094/2049L General Physics II
      - or
      - PHY 2053/2053L General Physics II and PHY 2054/2054L General Physics II

4. Meet all College and University requirements

**ENVIRONMENTAL MICROBIOLOGY (EMB) (CIP = 26.0101) (Track 1 of 2)**

**TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

**Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution**

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of C- is the minimum acceptable grade.

- BSC X010/X010L Biology I with Lab or BSC X010C or BSC X040/040L
- BSC X011/X011L Biology II with Lab or BSC X2011C or BSC X041/X041L or ZOO X0101/0101L or BOT X010/X010L or BOT X013/X013L
- CHM X045/X045L General Chemistry I with Lab or CHM X045C or CHM X040 and CHM X041
- CHM X046/X046L General Chemistry II with Lab or CHM X046C
- CHM X210/X210L Organic Chemistry I with Lab and CHM X211/X211L or (CHM X210C and X211C) or (PHY X053/X053L and PHY X054/X054L) or (PHY X048/X048L and PHY X049/X049L)
- MAC X311 Calculus I or MAC X233 or MAC X253 or MAC X281 or MAC X241
- MAC X312 Calculus II or MAC X282 or MAC X234 or STA X023 or STA X024 or STA X321

**REQUIREMENTS FOR THE MAJOR IN ENVIRONMENTAL MICROBIOLOGY (B.S.)**

Minimum: 40 credit hours

1. **Required Courses (28-29 credit hours):**
   - BSC 2010 Biology I Cellular Processes
BSC 2010L Biology I Cellular Processes Laboratory
BSC 2011 Biology II Diversity
BSC 2011L Biology II Diversity Laboratory

f. PCB 3043 Principles of Ecology
PCB 3043L Principles of Ecology Laboratory
PCB 3063 General Genetics
PCB 3063L General Genetics Laboratory

g. MCB 3020C General Microbiology
MCB 4404 Microbial Physiology and Genetics
MCB 4404L Microbial Physiology and Genetics Laboratory

h. Choose one of:
BSC 4933 Microbiology of Waterborne Diseases
BSC 5444 Genomics
MCB 4202 Ecology of Infectious Diseases
MCB 5655 Applied and Environmental Microbiology
ZOO 4233 Parasitology

2. Elective Courses (minimum 7-9 credit hours):
Integrative Biology and Cell, Molecular and Microbiology courses, with the exception of those intended for non-majors. A maximum of 4 credit hours of Undergraduate Research (BSC 4910) may be applied. A minimum of 20 credit hours of courses must be taken in residency and be applicable to the major.

3. Supporting Courses in the Natural Sciences (minimum 34 credit hours)

a. CHM 2045 General Chemistry I
CHM 2045L General Chemistry I Laboratory
CHM 2046 General Chemistry II
CHM 2046L General Chemistry II Laboratory

b. CHM 2210 Organic Chemistry I
CHM 2210L Organic Chemistry I Laboratory
CHM 2211 Organic Chemistry II
CHM 2211L Organic Chemistry II Laboratory

c. MAC 2241 Life Sciences Calculus I and MAC 2242 Life Sciences Calculus II
or
MAC 2281 Engineering Calculus I and MAC 2281 Engineering Calculus II
or
MAC 2281 Calculus I and MAC 2312 Calculus II
STA 2023 Introductory Statistics I may be substituted for any Calculus II

4. Meet all College and University requirements

- HEALTH SCIENCES (HLS) (CIP = 51.0000) (Track 1/7)
TOTAL PROGRAM HOURS = 120 CREDIT HOURS

This degree program is designed for those interested in health science, the health care industry and the allied health professions. The degree has a flexible curriculum so students can choose an area of specialization to suit their career interests. Career choices after graduation include working in health related nonprofit organizations, governmental and community agencies, medical records, patient education, geriatric care settings, diagnostic laboratories, hospitals, the pharmaceutical industry, medical and wellness facilities and businesses. Students graduating with this degree may enter the workforce or continue their education in a variety of fields that might include advanced degree programs in Health Management, Physical or Occupational Therapy, Physician Assistant, Health Administration, Healthcare Informatics, Communication Disorders and Social Work to name a few. (This degree has a greater social sciences, business and humanities focus than the more natural science and mathematics intensive degrees required for the professional schools in medicine, dentistry, pharmacy or veterinary medicine; for these see the health professions section in this catalog).

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution:

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The
Requirements for the Degree in Health Sciences (B.S.)

Core Requirements (35 credit hours):
- BSC 1010 The Biology of Humans or BSC 1005 Principles of Biology for Non-Majors
- MAC 1105 College Algebra
- STA 2023 Introductory Statistics I
- ENC 2210 Technical Writing
- DEP 2004 The Life Cycle
- PHI 3633 Biomedical Ethics or PHI 3636 Professional Ethics
- CLT 3040 Scientific and Medical Terminology
- PSY 2012 Introduction to Psychological Science
- COM 2000 Introduction to Communication or ACG 2021 Principles of Financial Accounting or ANT 2511 Biological Anthropology or GEY 2000 Introduction to Gerontology or SYG 2000 Introduction to Sociology

 Unless stated otherwise, a grade of C- is the minimum acceptable grade.

Concentrations
Students must choose 30 credit hours total, depending on the student’s career goals these can be 30 credits from one concentration or a combination of two different concentrations with 15 credits from each.

A. Biological Health Sciences Concentration (HBH)
- ANT 4520C Forensic Anthropology
- ANT 4462 Health Illness and Culture
- BMS 4406 Principles of Human Pharmacology
- BSC 3022 Biology of Aging
- BSC 4933 Selected Topics in Biology
- CHM 2023 Chemistry for Today
- CHM 2045 General Chemistry I and CHM 2045L General Chemistry Laboratory
- CHM 2046 General Chemistry II and CHM 2046L General Chemistry Laboratory
- GYE 3601 Physical Change and Aging
- HSC 3541 Human Structure & Function
- HSC 4504 Foundation of Public Health Immunology
- HSC 4554 Survey of Human Disease
- HSC 4580 Foundation of Food Safety
- HSC 4624 Foundation of Global Health
- HSC 4933 Special Topics in Public Health
- HUN 3296 Nutrition and Disease
- HUN 3272 Sports Nutrition
- LIS 4930 Selected Topics in Information Studies
- PHC 3302 Introduction to Environmental & Occupational Health
- PHC 4030 Introduction to Epidemiology
- PHC 4101 Introduction to Public Health
- PHC 4406 Pop Culture, Vices, and Epidemiology
- PHC 4542 Stress, Health & College Life
- PHY 2020 Conceptual Physics or PHY 2053/2053L Physics I with Lab
- PHY 2054/L Physics II with Lab
- ZOO 4512 Sociobiology

Communication Sciences & Disorders Cluster
- SPA 3030 Introduction to Hearing Science
- SPA 3101 Anatomy and Physiology of the Speech & Hearing Mechanism
SPA 3002  Introduction to Disorders of Speech and Language
SPA 3004  Introduction to Language Development and Disorders
SPA 4104  Neuroanatomy of Speech, Language & Hearing

B. Social and Behavioral Health Sciences Concentration (HBS)
CLP 4143  Abnormal Psychology
COM 4022  Health Communication
COM 4020  Communicating Illness, Grief and Loss
COM 4225  Global and Cultural Health Communication
HSC 4172  Women’s Health: A Public Health Perspective
HSC 4211  Health Behavior and Society
HSC 4579  Foundation of Maternal & Child Health
HSC 4631  Critical Issues in Public Health
HSC 4933  Special Topics in Public Health
LIS 4930  Selected Topics in Information Studies
PHI 4930  Selected Topics
SOP 4330  Social Psychology of HIV/AIDS
SOW 3102  Introduction to Social Work
SOW 3210  The American Social Welfare System
SPC 4321  Communication and Aging
SYO 4400  Medical Sociology
WST 4320  The Politics of Women’s Health

Mental Health Cluster
MHS 3411  Multidisciplinary Behavioral Healthcare Services
MHS 4002  Behavioral Health Systems Delivery
MHS 4408  Exemplary Practices in Behavioral HC Treatment
MHS 4931  Selected Topics
MHS 4703  Legal, Ethical and Professional Issues in Behavioral Healthcare

Substance Abuse Cluster
MHS 3411  Multidisciplinary Behavioral Healthcare Services
MHS 4408  Exemplary Practices in Behavioral Healthcare Treatment
MHS 4931  Selected Topics
MHS 4703  Legal, Ethical and Professional Issues in Behavioral Healthcare
PSB 3444  Drugs and Behavior

C. Aging Health Studies Concentration (HAH)
BSC 3022  Biology of Aging
GEY 3601  Physical Change and Aging
GEY 4322  Gerontological Case Management
MHS 4931  Selected Topics
GEY 4327  Understanding Policy and Practice in Long Term Care
GEY 4360  Gerontological Counseling
GEY 4608  Alzheimer’s Disease Management
GEY 4628  Race, Ethnicity, and Aging
GEY 4641  Death and Dying
GEY 4935  Special Topics in Gerontology
HSC 4211  Health, Behavior & Society
HSC 4630  Understanding US Healthcare
PHC 4931  Health Care Ethics
SPA 3002  Introduction to Disorders of Speech and Language
SOW 3210  The American Social Welfare System

D. Health Management Concentration (HHM)
ACG 2071  Principles of Managerial Accounting
GEY 4635  Business Management in an Aging Society
PHC 4101  Introduction to Public Health
HSC 4211  Health, Behavior & Society
HSC 4624  Foundation of Global Health
HSC 4933  Special Topics in Public Health
MAN 3025  Principles of Management
PAD 3003  Introduction to Public Administration
PAD 4204  Public Financial Administration
PHC 4931  Health Care Ethics
PHI 3636  Professional Ethics
PUP 4002   Public Policy
PUP 5607   Public Policy and Health Care
RMI 3011   Principles of Insurance
SYO 4400   Medical Sociology

E. Health Information Technology Concentration (HHI)
LIS 2937   Selected Topics in Library
ISM 3113   Systems Analysis and Design
LIS 3352   Interaction Design
LIS 3353   IT Concepts for Information Professionals
LIS 3361   World Wide Web Page Design and Management
LIS 3783   Information Architecture or LIS 4365 Web Design Technologies
LIS 4204   Information Behaviors
LIS 4414   Information Policy and Ethics
LIS 4482   Networks and Communication
LIS 4930   Selected Topics in Information Studies
EEL 4935   Special Electrical Engineering Topics I
PAD 4712   Managing Information Resources in the Public Sector

Additional Concentration Options/Combinations:
Aging Health Sciences & Health Management Concentration (HAM)
Social and Behavioral Health Sciences & Aging Health Studies Concentration (HAS)
Biological Health Sciences & Aging Health Studies Concentration (HBA)
Biological Health Sciences & Health Information Technology Concentration (HBI)
Biological Health Sciences & Health Management Concentration (HBM)
Aging Health Sciences & Health Information Technology Concentration (HIT)
Social and Behavioral Health Sciences & Health Management Concentration (HMG)
Health Management & Health Information Technology Concentration (HMT)
Biological Health Sciences & Social and Behavioral Health Sciences Concentration (HSB)
Social and Behavioral Health Sciences & Health Information Technology Concentration (HST)

• INTEGRATIVE ANIMAL BIOLOGY (IAB) (CIP = 26.0101) (Track 1 of 2)
TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution
Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of C- is the minimum acceptable grade.
BSC X010/X010L Biology I with Lab or BSC X010C or BSC X040/040L
BSC X011/X011L Biology II with Lab or BSC X2011C or BSC X041/X041L or ZOO X0101/0101L or BOT X010/X010L or BOT X013/X013L
CHM X045/X045L General Chemistry I with Lab or CHM X045C or CHM X040 and CHM X041
CHM X046/X046L General Chemistry II with Lab or CHM X046C
CHM X210/X210L Organic Chemistry I with Lab and CHM X211/X211L or (CHM X210C and X211C) or (PHY X053/X053L and PHY X054/X054L) or (PHY X048/X048L and PHY X049/X049L)
MAC X311 Calculus I or MAC X233 or MAC X253 or MAC X281 or MAC X241
MAC X312 Calculus II or MAC X282 or MAC X234 or STA X023 or STA X024 or STA X321

REQUIREMENTS FOR THE MAJOR IN INTEGRATIVE ANIMAL BIOLOGY (B.S.)
Minimum: 40 credit hours
1. Required Courses (24-25 credit hours)
a. BSC 2010 Biology I Cellular Processes
   BSC 2010L Biology I Cellular Processes Laboratory
   BSC 2011 Biology II Diversity
   BSC 2011L Biology II Diversity Laboratory
b. PCB 3043 Principles of Ecology  
PCB 3043L Principles of Ecology Laboratory  
PCB 3063 General Genetics  
PCB 3063L General Genetics Laboratory  
c. (ENY 3004C Introduction to Entomology and PCB 3712 General Physiology and PCB 3713L General Physiology Laboratory)  
or  
(ZOO 3205C Advanced Invertebrate Zoology and PCB 3712 General Physiology and PCB 3713L General Physiology Laboratory)  
or  
(ZOO 2303 Vertebrate Zoology and BSC 4933 Selected Topics in Biology and either:  
[PCB 3712 General Physiology and PCB 3713L General Physiology Laboratory] or  
[PCB 4723 Animal Physiology and PCB 4723L Animal Physiology Laboratory])  
or  
(ZOO 3713C Comparative Vertebrate Anatomy and either:  
[PCB 3712 General Physiology and PCB 3713L General Physiology Laboratory] or  
[PCB 4723 Animal Physiology and PCB 4723L Animal Physiology Laboratory])  
or  
(BSC 2093C Human Anatomy and Physiology I and BSC 2094C Human Anatomy and Physiology II)  

2. Elective Courses (minimum 16 credit hours):  
Any Integrative Biology and Cell, Molecular and Microbiology courses, with the exception of those intended for non-majors. A maximum of 4 credit hours of Undergraduate Research (BSC 4910) may be applied. A minimum of 20 credit hours of courses must be taken in residency and be applicable to the major.  

3. Supporting Courses in the Natural Sciences (minimum 34 hours):  
a. CHM 2045 General Chemistry I  
CHM 2045L General Chemistry I Laboratory  
CHM 2046 General Chemistry II  
CHM 2046L General Chemistry II Laboratory  
b. CHM 2210 Organic Chemistry I  
CHM 2210L Organic Chemistry I Laboratory  
CHM 2211 Organic Chemistry II  
CHM 2211L Organic Chemistry II Laboratory  
c. MAC 2241 Life Sciences Calculus I and MAC 2242 Life Sciences Calculus II  
or  
MAC 2281 Engineering Calculus I and MAC 2281 Engineering Calculus II  
or  
MAC 2311 Calculus I and MAC 2312 Calculus II  
STA 2023 Introductory Statistics I may be substituted for any Calculus II  
d. PHY 2048/2048L General Physics II and PHY 2094/2094L General Physics II  
or  
PHY 2053/2053L General Physics II and PHY 2054/2054L General Physics II  

4. Meet all College and University requirements  

- MARINE BIOLOGY (MRN) (CIP = 26.0101) (Track 1 of 2)  
TOTAL PROGRAM HOURS = 120 CREDIT HOURS  

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution  
Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of C- is the minimum acceptable grade.  
BSC X010/X010L Biology I with Lab or BSC X010C or BSC X040/040L  
BSC X011/X011L Biology II with Lab or BSC X2011C or BSC X041/X041L or ZOO X0101/0101L or BOT X010/X010L or BOT X013/X013L  
CHM X045/X045L General Chemistry I with Lab or CHM X045C or CHM X040 and CHM X041  
CHM X046/X046L General Chemistry II with Lab or CHM X046C  
CHM X210/X210L Organic Chemistry I with Lab and CHM X211/X211L or (CHM X210C and X211C) or (PHY X053/X053L and PHY X054/X054L) or (PHY X048/X048L and PHY X049/X049L)  
MAC X311 Calculus I or MAC X233 or MAC X253 or MAC X281 or MAC X241  
MAC X312 Calculus II or MAC X282 or MAC X234 or STA X023 or STA X024 or STA X321
REQUIREMENTS FOR THE MAJOR IN MARINE BIOLOGY (B.S.)

Minimum: 40 credit hours

1. Required Courses (26-27 credit hours)
   a. BSC 2010  Biology I Cellular Processes
      BSC 2010L Biology I Cellular Processes Laboratory
      BSC 2011 Biology II Diversity
      BSC 2011L Biology II Diversity Laboratory
   f. PCB 3043 Principles of Ecology
      PCB 3043L Principles of Ecology Laboratory
      PCB 3063 General Genetics
      PCB 3063L General Genetics Laboratory
   g. BSC 3312 Marine Biology
      BSC 4937 Seminar in Marine Biology
   h. Choose one of:
      BOT 3373C Vascular Plants
      MCB 3020C General Microbiology
      ZOO 2303 Vertebrate Zoology and BSC 4933 Selected Topics in Biology
      ZOO 3205C Advanced Invertebrate Zoology
      ZOO 3713C Comparative Vertebrate Anatomy

2. Elective Courses (minimum 14-15 credit hours):
   BSC 4313C Advanced Marine Biology
   BSC 4933 Special Topics in Biology
   GIS 5049 GIS for Non-Majors
   GLY 4734 Beaches and Coastal Environments
   OCB 6050 Biological Oceanography
   OCC 6050 Chemical Oceanography
   OCP 6050 Physical Oceanography
   PCB 3712 General Physiology and PCB 3713L General Physiology Laboratory
   PCB 4674 Organic Evolution
   PCB 4723 Animal Physiology and PCB 4723L Animal Physiology Laboratory
   MCB 4404 Microbial Physiology and Genetics and MCB 4404L Microbial Physiology & Genetics Laboratory
   MCB 5655 Applied and Environmental Microbiology
   ZOO 4513 Animal Behavior
   ZOO 5555C Marine Animal Ecology

Any course used from section 1d. above may not be used to satisfy the section 2. requirement above.

A minimum of 6 credit hours at the 4000-level should be taken.
A maximum of 6 credit hours may be taken outside of the department with prior approval. A maximum of 4 credit hours of Undergraduate Research (BSC 4910, MCB 4910) may be applied. A minimum of 20 credit hours of courses must be taken in residency and be applicable to the major.

3. Supporting Courses in the Natural Sciences (minimum 34 credit hours):
   a. CHM 2045 General Chemistry I
      CHM 2045L General Chemistry I Laboratory
      CHM 2046 General Chemistry II
      CHM 2046L General Chemistry II Laboratory
   b. CHM 2210 Organic Chemistry I
      CHM 2210L Organic Chemistry I Laboratory
      CHM 2211 Organic Chemistry II
      CHM 2211L Organic Chemistry II Laboratory
   c. MAC 2241 Life Sciences Calculus I and MAC 2242 Life Sciences Calculus II
      or
      MAC 2281 Engineering Calculus I and MAC 2281 Engineering Calculus II
      or
      MAC 2311 Calculus I and MAC 2312 Calculus II
      STA 2023 Introductory Statistics I may be substituted for any Calculus II
   d. PHY 2048/2048L General Physics II and PHY 2094/2049L General Physics II
      or
      PHY 2053/2053L General Physics II and PHY 2054/2049L General Physics II

4. Meet all College and University requirements
MICROBIOLOGY (MIC) (CIP = 26.0503)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of C- is the minimum acceptable grade.

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of C- is the minimum acceptable grade.

- **BSC X010/X010L Biology I with Lab** or **BSC X010C** or **BSC X040/X040L** or **PCB X011C**
- **BSC X011/X011L Biology II with Lab** or **BSC X2011C** or **BSC X041/X041L** or **BSC X041/X041L**
- **CHM X045/X045L General Chemistry I with Lab** or **CHM X045C** or **(CHM X040 and CHM X041)**
- **CHM X046/X046L General Chemistry II with Lab** or **CHM X046C**
- **CHM X210/X210L Organic Chemistry I with Lab and CHM X211/X211L** or **(CHM X210C and X211C)** or **(PHY X053/X053L and PHY X054/X054L)** or **(PHY X048/X048L and PHY X049/X049L)**
- **MAC X311 Calculus I** or **MAC X233** or **MAC X253** or **MAC X281** or **MAC X241**
- **MAC X312 Calculus II** or **MAC X282** or **MAC X234** or **STA X023** or **STA X024** or **STA X321**

REQUIREMENTS FOR THE MAJOR MICROBIOLOGY (B.S.)

Department of Cell Biology, Microbiology, and Molecular Biology

Minimum: 42 credit hours

1. Required courses (30 credit hours):
   a. **BSC 2010 Biology I Cellular Processes**
      - BSC 2010L Biology I Cellular Processes Laboratory
      - BSC 2011 Biology II Diversity
      - BSC 2011L Biology II Diversity Laboratory
   b. **PCB 3023 Cell Biology**
      - PCB 3023L Cell Biology Laboratory
      - PCB 3063 General Genetics
      - MCB 3410 Cell Metabolism
      - MCB 3020C General Microbiology
   c. **MCB 4115C Determinative Bacteriology**
      - MCB 4320 Molecular Microbiology

2. Elective Courses: [12 hours]
   - **BSC 4905 Independent Study**
   - **BSC 4933 Selected Topics in Biology**
   - **BSC 5931 Selected Topics in Biology**
   - **BOT 4434C Mycology**
   - **MCB 4503 Virology**
   - **MCB 4313 Industrial Microbiology**
   - **MCB 4905 Microbiology Undergraduate Research**
   - **MCB 4934 Seminar in Microbiology**
   - **MCB 5206 Public Health and Pathogenic Microbiology**
   - **MCB 5655 Applied and Environmental Biology**
   - **MCB 5815 Medical Micrology**
   - **PCB 4234 Principles of Immunology**
   - **BCH 3053 Introductory Biochemistry**
   - **BCH 3023L Basic Biochemistry Laboratory**
   - **MCB 4404 Microbial Physiology and Genetics**
   - **MCB 4404L Microbial Physiology and Genetics Laboratory**
   - **MCB 5655 Applied and Environmental Biology**

   *Please see an Academic Advisor for appropriate selected topics courses.
   A maximum of 4 credit hours of Undergraduate Research (MCB 4910) may be applied.
   A minimum of 20 credit hours of courses must be taken in residency and be applicable to the major.

3. Supporting Courses in the Natural Sciences (minimum 34 credit hours):
   a. **CHM 2045 General Chemistry I**

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accelerated non-thesis b.s./m.s. program in microbiology

this program allows b.s. majors in microbiology to take graduate courses for the elective part of the microbiology degree and apply them to a non-thesis m.s. degree in microbiology. successful students will be able to earn the m.s. degree in two additional semesters beyond the completion of the b.s. degree.

this accelerated program shares 12 credits between already existing degrees/concentrations:

b.s. in microbiology
m.s. in microbiology (nt)

target students and expected outcomes
this program will appeal to the more competitive microbiology majors who would benefit professionally from having the m.s. when they enter the job market but do not want to commit to the longer time a thesis m.s. or a ph.d. program takes to complete. professions that do not require bench laboratory experience but desire the broadened knowledge base are targeted. graduates from this program would be ideally suited for health professions, technology based industry, education and government. we also expect that some students will be interested in doctoral education in the biological or biomedical areas.

description and requirements
biology majors who have completed the following courses may apply to this program:

pcb 3023 cell biology
pcb 3063 genetics
mcb 3410 cell metabolism
mcb 3032 microbiology
mcb 4115c determinative bacteriology

graduate degree requirements
students admitted into the m.s. portion of the program must complete all the requirements for the m.s. degree (non-thesis) within three semesters of admission. the requirement is 30 hours of graduate work with at least 16 of these hours completed at the 6000 level; 26 hours must be formally structured courses; and at least 15 hours must be in cell, molecular and microbiology courses. students will be required to take 3 core courses from the list below as part of these 26 hours. of the required 26 hours, 9 hours will be derived from the core- cell, molecular and microbiology graduate courses listed below (see associated curriculum). these requirements can be partially met by up to 12 hours of graduate courses taken as undergraduates. any graduate class taken outside of cell, molecular and microbiology must be approved by the cell, molecular and microbiology graduate director. students should be aware that a b grade or better is required for every graduate class applied to the ms portion of their degree. in addition, students will be required to pass an oral qualifying exam based on a review paper submitted in their final semester. students must form a committee as part of their action plan to complete their graduate work. this committee will be comprised of at least 3 cell, molecular and microbiology faculty, and will serve as the examination committee for the review paper required as part of the ms portion of their degree. upon approval of that paper, students must successfully complete a comprehensive oral exam by their committee.

timeline and benchmarks:
1. completion of prerequisite upper division courses and application to the accelerated program. typically students will be in their junior year.
2. Acceptance into the program and an action plan within a semester of application.
3. Students will take up to 12 credits of graduate credit in Cell, Molecular and Microbiology courses following acceptance into the program. Typically these courses will be taken in the latter half of the junior year and in the senior year. BioAdvise will monitor the progress of the students and ensure they follow their action plan. Students who do not complete at least 9 hours of graduate work by graduation will be dropped from the accelerated M.S. program.
4. GRE exams will be taken in a timely manner so scores will be available for admission to the M.S. portion of the program. Students who do not complete the GRE in time will not be admitted to the accelerated M.S. program.
5. Students admitted to the accelerated program must form a committee prior to the beginning of their first semester in the M.S. portion of the program and must continue to follow the action plan which will be monitored by BioAdvise.
6. Students admitted to the accelerated M.S. program must complete the requirements within three semesters or will be dismissed from the program.

Year 1
- BSC 2010 Cellular Processes
- BSC 2010L Cellular Processes Laboratory
- BSC 2011 Diversity
- BSC 2011L Diversity Laboratory

Year 2
- MCB 3410 Cell Metabolism
- PCB 3063 General Genetics
- PCB 3063L General Genetics Laboratory
- PCB 3023 Cell Biology
- PCB 3023L Cell Biology Laboratory
- MCB 3032C General Microbiology

Year 3
- MCB 4115C Determinative Bacteriology
- Three (3) credit hours of 5000-level elective structured course

Year 4
- MCB 4320 Molecular Microbiology
- Nine (9) credit hours of 5000- or 6000-level elective courses

Year 5
- Eighteen (18) hours of graduate coursework - 9 hours of which must be derived from the list below:
  - BSC 6932 Selected Topics in Biology
  - PCB 6236 Advanced Immunology
  - PCB 6525 Molecular Genetics
  - MCB 5206 Public Health and Pathogenic Microbiology
  - MCB 5655 Applied and Environmental Microbiology
  - MCB 5815 Medical Mycology
- Four (4) credit hours of non-structured courses (seminar, independent study, laboratory research)
- Oral exam and review paper done at the end of Year 5

Comprehensive Oral Qualifying Examination.
A final comprehensive oral examination is required for all master's students. This examination is open to all departmental faculty. Students must take their comprehensive exam within two years of matriculation and the exam is normally taken after the completion of all formal course work. Thesis students must take the examination at least one semester before the thesis is presented. Any graduate work counted toward the requirement for the M.S. degree must be completed within five (5) years after matriculation.

Requirements for the Minor in Microbiology (MIC)
The minor in Microbiology consists of 26 credit hours, which include:

**Required Courses:**
- BSC 2010 Biology I Cellular Processes
- BSC 2010L Biology I Cellular Processes Laboratory
- PCB 3023 Cell Biology
- PCB 3023L Cell Biology Laboratory
- PCB 3063 General Genetics
- MCB 3410 Cell Metabolism or BCH 3023 Biochemistry
- MCB 3020C General Microbiology
Department of Chemistry

The Department of Chemistry awards five degrees at the baccalaureate level: the Bachelor of Arts in Chemistry and, four Bachelor of Science degrees, in Chemistry, Biomedical Sciences, Interdisciplinary Natural Sciences, and Medical Technology. The Bachelor of Arts in Chemistry is also offered with an emphasis in Biochemistry or an emphasis for Health Professions. The Chemistry Department also awards three degrees at the graduate level, a non-thesis Master of Arts, the Master of Science and the Doctor of Philosophy. Each of the graduate degrees offers specialization in the areas of analytical chemistry, biochemistry, inorganic chemistry, organic chemistry and physical chemistry. The chemistry faculty is comprised of 25 tenure and tenure-track faculty members and 5 instructors all of whom hold the Ph.D. degree. The combination of a large and strong faculty with a wide variety of courses and electives provides students with programs of study which can be tailored to fit individual needs while maintaining a sound background in all general aspects of chemistry.

Majors in chemistry are well prepared to enter a wide range of chemical careers as well as many interdisciplinary activities that are the hallmark of modern science and technology. These include teaching and research in academic, government and private settings, biomedical research and clinical practice, environmental activities, materials science, law, business and other professions. The Bachelor of Science in Chemistry is designed for students wishing to continue with graduate training in chemistry and closely allied disciplines and the degree is certified by the American Chemical Society. The Bachelor of Arts in Chemistry provides opportunities for curricula individually tailored to meet many career objectives.

General Requirements for the Majors in Chemistry

The required sequence of Chemistry courses should be started immediately in the freshman year; the mathematics and physics requirements should be completed before the junior year as preparation for CHM 4410 Physical Chemistry I (B.S. degree), a course which is to be taken in the third year. CHM 4410 is a prerequisite to other advanced courses required for the B.S. degree in chemistry. CHM 4060 “Use of Chemical Literature” also is a prerequisite to several B.S. degree courses.

A grade of C or better is required in each chemistry major course and each supporting course specified for a chemistry degree. All courses in a chemistry program must be taken with letter grade (A, B, C, D, F, I) except those courses which are graded S/U only. Nine hours of upper-level chemistry courses must be completed at USF for the Bachelor of Arts in Chemistry and the Bachelor of Science in Chemistry degrees. Twelve hours of upper-level major applicable courses must be completed at USF for the Interdisciplinary Natural Sciences degree. Twelve credit hours of major-applicable upper-level natural science courses must be completed at USF for the Biomedical Sciences degree, which includes seven credits of Chemistry coursework.

FKL or Liberal Arts Requirement. The student is required to complete the university’s Liberal Arts Requirement. Chemistry and Mathematics courses required for chemistry degrees satisfy the Liberal Arts requirements in the areas of Natural Science and Quantitative Methods.

Free Electives. Courses over and above the required courses should be taken to complete a 120 hour program. Recommended courses are listed in the degree requirements below. Additional courses in computer programming, economics, management, engineering, statistics, writing, and other applied disciplines are strongly recommended to strengthen the degree for subsequent professional employment.

Transfer Credit: It is strongly recommended that students transferring from community/state colleges to the University of South Florida complete whole sequences of chemistry courses, such as general and organic chemistry, before they transfer. Even though courses may carry the same common course number, topics covered may vary significantly from school to school.

D/F Policy: The following three departments, the Department of Chemistry, the Department of Cell Biology,
Microbiology and Molecular Biology and the Department of Integrative Biology have instituted a procedure to provide students with the best opportunity to progress toward their degree requirements. Effective Fall 2009, the following D and/or F grade rules apply for students to continue in all of the following majors:

- Biomedical Sciences
- Biology (including the marine science concentration)
- Microbiology
- Chemistry (BA, BS)
- Interdisciplinary Natural Sciences (INS)
- Medical Technology and
- Pre-medical sciences students (PMS) who have not yet declared a major

- All students entering USF for the first time, in Fall 2009 or later, who subsequently earn three (3) D and/or F grades in applicable USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) will be required to change their major to a major more appropriate to their goals and academic performance, and to a major that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

- All continuing USF students who entered USF prior to Fall 2009 and who have not earned any D or F grades in USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) before Fall 2009, will also be redirected after earning three (3) D and/or F grades in subsequent terms. Upon earning the 3rd D and/or F grade, students will be required to choose another major more appropriate to their goals and academic performance, and to one that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

- All continuing USF students who entered USF prior to Fall 2009 and who have earned one (1) or more D or F grades in USF science and math coursework for the major (i.e. Math, Biology, Chemistry and Physics) prior to Fall 2009, will be allowed to count all previous D/F grades as one (1) D/F grade. After Fall 2009, students who earn two (2) additional D and/or F grades (resulting in three (3) total D/F grades) in subsequent terms will be required to choose another major more appropriate to their goals and academic performance, and to one that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

- Lab only courses are not counted towards the total number of D/F grades earned for the policy. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

If a student is redirected via the D/F policy, regardless of major, they will no longer be able to take any courses offered by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

Exceptions to the required change of major will be considered by the Department of the student's major and ONLY for those students with exceptional circumstances.

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. These include two semesters each of General Chemistry lecture and lab, Organic Chemistry lecture and lab, Calculus, and General Physics lecture and lab. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

- CHM X045/X045L General Chemistry I (with lab) or CHM 1040 and 1041, or 1045C
- CHM X046/X046L General Chemistry II or CHM 1046C
- MAC 2311 Calculus I or MAC 2281 Engineering Calculus I
- MAC 2312 Calculus II or MAC 2282 Engineering Calculus II
- CHM 2210/2210L Organic Chemistry I & Lab or CHM 2210C
- CHM 2211/2211L Organic Chemistry II & Lab or CHM 2211C
- PHY 2048/2048L Gen Physics I & Lab or PHY 2048C, or PHY 2053C or PHY 2053 and PHY 2053L
- PHY 2049/2049L Gen Physics II & Lab or PHY 2049C, or PHY 2054C or PHY 2054 and PHY 2054L

CHEMISTRY (CHS/CHM) (CIP = 40.0501) (Track 1 of 2)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Requirements for the B.A. in Chemistry (CHM)

The Chemistry B.A. gives students exposure to analytical, inorganic, organic and physical chemistry while providing the flexibility to take additional elective courses. Students interested in professional, law, or graduate school or those who anticipate working in careers related to secondary education or business will find this degree attractive. The B.A. student whose goals change in the direction of graduate study should supplement this curriculum by addition and/or
substitution of a selection of advanced courses from the B.S. program. Prerequisites are included in the list below.

**Required Chemistry Courses - 33 credit hours:**

- CHM 2045 General Chemistry
- CHM 2045L General Chemistry I Lab
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab
- CHM 3120C Elementary Analytical Chemistry I
- CHM 3610 Intermediate Inorganic Chemistry I
- CHM 3610L Intermediate Inorganic Chemistry I Lab
- CHM 4410 Physical Chemistry I
- CHM 4413 Biophysical Chemistry

**Required Chemistry Electives - 6 credit hours:**

- 3000 level or above; may include not more than 1 hour of CHM 4970.

  Suggested courses:
  - BCH 3053 Introductory Biochemistry
  - BCH 3023L Basic Biochemistry Laboratory
  - BCH 4034 Advanced Biochemistry
  - CHM 4300 Biomolecules I
  - CHS 4300 Fundamentals of Clinical Chemistry
  - CHS 4301L Clinical Laboratory
  - CHM 4060 Use of Chemical Literature
  - CHM 4070 Historical Perspectives in Chemistry
  - CHM 4130C Methods of Instrument Analysis
  - CHM 4131C Methods of Chemical Investigation II
  - CHM 4411 Physical Chemistry II
  - CHM 4410L Physical Chemistry Laboratory
  - CHM 4611 Advanced Inorganic Chemistry
  - CHM 4970 Undergraduate Research
  - CHM 4932* Selected Topics in Chemistry

  *Selected Topics in Chemistry - content varies each semester.

**Required Supporting Courses - 14-16 credit hours:**

- MAC 2311 and MAC 2312 or MAC 2281 and MAC 2282
- PHY 2053/PHY 2053L and PHY 2054/PHY 2054L or PHY 2048/PHY 2048L and PHY 2049/PHY 2049L

**Required natural science or engineering electives - 8 credit hours:**

  Suggested courses:
  - BSC 2010/2010L Cellular Processes/Laboratory
  - BSC 2011/2011L Biodiversity/Laboratory
  - GLY 2010/2000L Dynamic Earth: Introduction to Physical Geology/Laboratory
  - GLY 2100/2100L History of Life/Laboratory
  - EVR 2001/2001L Introduction to Environmental Science/Laboratory
  - CGS 2060 Introduction to Computers and Computer Programming
  - STA 2023 Introductory Statistics I

**Requirements for the B.A. in Chemistry, Emphasis in Biochemistry/Biotechnology (CBY)**

The Chemistry B.A. offers a unique opportunity for students to pursue later studies and/or professional emphasis in Biochemistry along with a strong foundation in the chemical knowledge and skills that are essential to these areas. The following schedule of courses meets the requirements for a B.A. in Chemistry and provides core courses in other disciplines basic to biochemistry. Prerequisites are included in the list below.

**Required Chemistry Courses - 30 credit hours:**

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab
- CHM 2210 Organic Chemistry I
CHM 2210L Organic Chemistry I Lab
CHM 2211 Organic Chemistry II
CHM 2211L Organic Chemistry II Lab
CHM 3120C Elementary Analytical Chemistry I
BCH 3023 Introductory Biochemistry
BCH 3023L Basic Biochemistry Lab
BCH 4034 Advanced Biochemistry

**Required Chemistry Electives - 9 credit hours:**
Minimum of 9 hours selected from the following:

- CHM 3610 Intermediate Inorganic Chemistry I*
- CHM 3610L Intermediate Inorganic Chemistry I Lab*
- CHM 4060 Use of the Chemical Literature
- CHM 4300 Biomolecules I
- CHM 4070 Historical Perspectives in Chemistry
- CHM 4410 Physical Chemistry I*
- CHM 4410L Physical Chemistry Lab*
- CHM 4413 Biophysical Chemistry
- CHM 4411 Physical Chemistry II
- CHM 4932 Selected Topics in Chemistry**

*Students anticipating graduate study are advised to select these courses.
**Selected Topics in Chemistry - content varies each semester.

Note: CHM 4932, Peer Leading cannot be used as a required chemistry elective in the major.

**Required Supporting Courses - 22 - 24 credit hours:**

- MAC 2311 and MAC 2312 or MAC 2281 and MAC 2282
- PHY 2053 /PHY 2053L and PHY 2054/PHY 2054L or PHY 2048/PHY 2048L and PHY 2049/PHY 2049L
- BSC 2010 and BSC 2010L
- PCB 3023 and PCB 3023L

**Other suggested electives important for advanced studies in Biochemistry:**

- PCB 3063 General Genetics
- STA 2023 Introductory Statistics I
- MCB 3020C General Microbiology
- EVR 2001 Introduction to Environmental Science

**Requirements for the B.A. in Chemistry, Emphasis for Health Professions (CHH):**

The B.A. in Chemistry, Health Professions includes many of the prerequisites needed for health profession careers. Prerequisites are included in the list below.

**Required Chemistry Courses - 30 credit hours:**

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab
- CHM 3120C Elementary Analytical Chemistry I
- BCH 3023 Introductory Biochemistry
- CHS 4300 Fundamentals of Clinical Chem.
- CHS 4301L Fundamentals of Clinical Chem. Lab

**Required Chemistry Electives - 9 credit hours:**
Minimum of 9 hours selected from the following:

- BCH 3023L Basic Biochemistry Lab
- BCH 4034 Advanced Biochemistry
- CHM 3610 Intermediate Inorganic Chemistry*
- CHM 3610L Intermediate Inorganic Chemistry Lab*
- CHM 4060 Use of the Chemical Literature
- CHM 4070 Historical Perspectives in Chemistry
- CHM 4410 Physical Chemistry I*
- CHM 4410L Physical Chemistry Lab*
CHM 4411  Physical Chemistry II  
CHM 4413  Biophysical Chemistry  
CHM4932  Special Topics in Chemistry**  
*Students anticipating graduate study are advised to select these courses.  
**Selected Topics in Chemistry - content varies each semester.  
Note:  CHM 4932, Peer Leading cannot be used as a required chemistry elective in the major.

**Required Supporting Courses - 22-24 credit hours:**
MAC 2311 and MAC 2312 or MAC 2281 and MAC 2282  
PHY 2053/PHY 2053L and PHY 2054/PHY 2054L or PHY 2048/PHY 2048L and PHY 2049/PHY 2049L  
BSC 2010 and BSC 2010L  
PCB 3023 and PCB 3023L  
PCB 4723 and PCB 4723L or PCB 3023 and PCB 3023L

**Other suggested electives important for advanced studies in the various health profession areas:**
BSC 2011  Biodiversity  
PCB 3063  General Genetics  
STA 2023  Introductory Statistics I  
MCB 3020C  General Microbiology  
PCB 4723  Animal Physiology  
ZOO 4753  Human Histology and Molecular Pathology of Disease  
ZOO 3713C  Comparative Vertebrate Anatomy

**Requirements for the BS in Chemistry (CHS)**
The Bachelor of Science in Chemistry provides a firm foundation in all five disciplines of chemistry: organic, physical chemistry, inorganic, analytical and biochemistry. Students interested in research, the pursuit of an advanced degree, employment in the chemical industry, or who want to teach at the secondary education level may find this degree attractive. The curriculum for the B.S. degree in Chemistry meets the requirements for degree certification by the American Chemical Society.

Prerequisites are included in the list below.

**Required Chemistry Courses - 50 credit hours:**
CHM 2045  General Chemistry I  
CHM 2045L  General Chemistry I Lab  
CHM 2046  General Chemistry II  
CHM 2046L  General Chemistry II Lab  
CHM 2210  Organic Chemistry I  
CHM 2210L  Organic Chemistry I Lab  
CHM 2211  Organic Chemistry II  
CHM 2211L  Organic Chemistry II Lab  
BCH 3023  Introductory Biochemistry  
CHM 3120C  Elementary Analytical Chemistry I  
CHM 3610  Intermediate Inorganic Chemistry I  
CHM 3610L  Intermediate Inorganic Chemistry I Lab  
CHM 4060  Use of the Chemical Literature  
CHM 4130C  Methods of Instrumental Analysis  
CHM 4131C  Methods of Chemical Investigation  
CHM 4410  Physical Chemistry I  
CHM 4410L  Physical Chemistry Laboratory  
CHM 4411  Physical Chemistry II  
CHM 4611  Advanced Inorganic Chemistry

**Required Supporting Courses - 20-23 credit hours:**
MAC 2311 and MAC 2312 and MAC 2313 or MAC 2281 and MAC 2282 and MAC 2283  
PHY 2048 and PHY 2048L  
PHY 2049 and PHY 2049L

**Required natural science or engineering electives -3-6 hours**
One 3000-level course (PHY 3101, MAP 4302 suggested)  
or  
Two 2000-level courses (BSC 2010, BSC 2011, GLY 2010, GLY 2100, EVR 2001, CGS 2060, CGS 2100, EGN 2210)

**Other suggested chemistry electives:**
CHM 4970  Undergraduate Research  
BCH 3023L  Basic Biochemistry Laboratory
Requirements for the Minor in Chemistry (CHM)

A minimum of 24 total hours is required. Eight hours of approved Chemistry coursework must be completed at USF. Students apply for a minor when submitting a graduation application (i.e., there is no need to “declare” a minor). Chemistry, Biomedical Sciences, Interdisciplinary Natural Sciences, and Medical Technology majors are not eligible for the minor in Chemistry.

Required Chemistry Courses - 4 credit hours:
- CHM 2045  General Chemistry I
- CHM 2045L General Chemistry I Lab
- CHM 2046  General Chemistry II
- CHM 2046L General Chemistry II Lab
- CHM 2210  Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab
- CHM 4060  Use of Chemical Literature

Chemistry Electives - Minimum 10 hours:
Choose 10 hours of structured classes applicable to the major. Chemistry courses used to satisfy a major requirement cannot be used toward a minor in Chemistry.

Minimum 24 Total Hours

Note: In all laboratory classes the lecture is PR/CR.

BIOMEDICAL SCIENCES (BMS) (CIP = 26.0102)
TOTAL PROGRAM HOURS = 120 CREDIT HOURS

The Biomedical Sciences degree serves as a gateway into a variety of health-professional programs such as Medicine, Pharmacy, Dentistry, and Physical Therapy. Required courses include Biology, Chemistry, Math and Physics. This degree provides the flexibility to choose advanced level science course based on academic and professional interests. Students contemplating graduate study should pursue a major in the discipline of their interest, such as Biology, Chemistry, or Microbiology. A grade of C or better is required for science and mathematics courses and each supporting course for the Major.

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community/junior college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

- BSC X010, X010L & BSC X011, X011L Biology I and II with Lab or BSC X010C & BSC X011C
- CHM X045 & CHM X045L General Chemistry I & Lab or CHM X045C
- CHM X046 & CHM X046L General Chemistry II & Lab or CHM X046C
- CHM X210 & CHM X210L Organic Chemistry I & Lab or CHM X210C
- CHM X211 & CHM X211L Organic Chemistry II & Lab or CHM X211C
- PHY X053 & X053L General Physics I & Lab and PHY X054 & X054L General Physics II & Lab

*Content varies each semester.
or
PHY 2053C and PHY 2054C
or
PHY X048 & X048L General Physics I & Lab and PHY X049 & X049L General Physics II & Lab
or
BSC X093 Human Anatomy & Physiology I and BSC X094 Human Anatomy & Physiology II
BSC X093/X093L and BSC X094/X094L
MAC X241 Life Sciences Calculus or MAC X281 or MAC X311
MAC X242 Life Sciences Calculus II or MAC X282 or X312 or STA X023 or STA X024
Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

Tier 1 - Required Biology and Chemistry Courses:
Biology:
BSC 2010 Biology I - Cellular Processes
BSC 2010L Biology I Lab
BSC 2011 Biology II - Diversity
BSC 2011L Biology II Lab
Chemistry:
CHM 2045 General Chemistry I
CHM 2045L General Chemistry I Lab
CHM 2046 General Chemistry II
CHM 2046L General Chemistry II Lab
CHM 2210 Organic Chemistry I
CHM 2210L Organic Chemistry I Lab
CHM 2211 Organic Chemistry II
CHM 2211L Organic Chemistry II Lab
Required Supporting Courses:
Mathematics:*
MAC 2241 Life Sciences Calculus I
MAC 2242 Life Sciences Calculus II or STA 2023 Introductory Statistics
*MAC2311 and MAC 2312 are also acceptable for the major.
*MAC 2281 and MAC 2282 are also acceptable for the major
Physics:*
PHY 2053 General Physics I
PHY 2053L General Physics I Lab
PHY 2054 General Physics II
PHY 2054L General Physics II Lab
*Students may substitute Human Anatomy or Physiology I and II (BSC 2093C & 2094C or BSC 2085, 2085L & BSC 2086, 2086L) for Physics I & II

Tier 2 - Required Biomedical Electives:
Total 7-8 credit hours of required courses
BCH 3023
MCB 3020C or chose 1 lecture PCB 3063 or PCB 3023 and 1 lab PCB3063L or PCB 3023L or BCH 3023L
Minimum of 14 credits from the following to include:
- Nine (9) credits minimum of Biology and Chemistry Coursework from the lists below, with no fewer than three (3) credits in both Biology and Chemistry.
- Lab Requirement: Students must choose at least one upper-division Lab (must take co-requisite lecture) or combined lecture/lab course.
- Chemistry Residency Requirement: Seven (7) credits of Chemistry coursework, upper or lower division, must be completed at USF.
- Upper-Division Residency Requirement: 12 credit hours of major-applicable upper-level natural science courses must be completed at USF.
- No duplicate credit allowed.

Biology:
BOT 3850 Medical Botany
MCB 4115C Determinative Bacteriology*
MCB 4404 Microbial Physiology and Genetics
### Interdisciplinary Natural Sciences (INS) (CIP = 30.0101) (Track 16 of 16)

**Total Program Hours = 120 Credit Hours**

The Interdisciplinary Natural Science degree serves the academic and career goals of undergraduate students who seek a broad education in the Natural Sciences (Biology, Chemistry, Physics, Mathematics, Geology). Students select a sequence of upper-level courses based on career goals, choosing three of the five natural science areas. Students interested in secondary education, public health, and other fields may choose this degree.

For information on teacher certification in science or mathematics, prospective teachers should consult the section entitled Teacher Education Programs and also consult the College of Education section of the catalog. A grade of C or better is required for all sciences and mathematics requirements listed below, and those specific to USF.

**Prerequisites (Recommended Prerequisites) for Students Transferring from a Florida College System Institution**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet FKL Liberal Arts Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

Students are encouraged to complete as many of the following courses as possible, during the program of study at
the community college, and when feasible in FKL Liberal Arts/Gordon Rule courses. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

- Biology I and Biology II (BSC 2010, 2010L, BSC 2011, 2011L)
- Calculus (MAC 2241 and MAC 2242 or MAC 2311 and MAC 2312 or MAC 2281 and MAC 2282)
- General Chemistry (CHM 2045, CHM 2045L, CHM 2046, CHM 2046L)
- General Physics (PHY 2053, PHY 2053L, PHY 2054, PHY 2054L) or (PHY 2048, PHY 2048L, PHY 2049, PHY 2049L)
- Introduction to Physical Geology and History of the Earth and Life (GLY 2010, GLY 2000L, GLY 2100, GLY 2100L)

Requirements for the Major in Interdisciplinary Natural Sciences (B.S.)

Coursework required for Interdisciplinary Natural Science majors:

TIER 1
Two introductory courses in each of 5 natural sciences areas (Math, Physics, Chemistry, Biology, Geology) totaling 38-40 hours:

- Calculus I and II: MAC 2241 and 2242 or MAC 2311 and 2312 or MAC 2281 and 2282 (STA 2023 may be substituted for Calculus II)
- General Chemistry I and II: CHM 2045, 2045L and CHM 2046, 2046L
- Geology I and II: GLY 2010, 2000L and GLY 2100, 2100L
- Physics I and II: (PHY 2053, 2053L, 2054, 2054L) or (PHY 2048, 2048L, 2049, 2049L)

TIER 2
Students are required to complete a minimum total of 24 credit hours. A minimum of 6 credit hours of structured, upper division (3000 level or higher) courses in three of the five natural sciences areas is required. All Tier 2 courses in the sciences will be selected by the individual student, but must be chosen from the list of courses approved for department Major credit.

At least 12 of the 24 hours at Tier 2 must be taken at USF for residency.

- MEDICAL TECHNOLOGY (MET) (CIP = 51.1005) (B.S.)

Total Program Hours = 120 Credit Hours

The University of South Florida offers a four year program leading to the Bachelor of Science degree in Medical Technology. The first three years are completed on campus; the fourth year (12 months) is completed at one of three affiliated hospitals in Florida, located in Tampa, St. Petersburg, and Jacksonville. Admission to the fourth year is limited by the number of openings in affiliated hospitals and, at the present time, is competitive. Selection for the clinical program is made by the hospitals and students not admitted to a clinical program will need to select an alternate degree. Generally, hospitals require a minimum GPA of 2.50 to 2.75, and our students admitted to clinical programs in recent years have had a mean GPA of 3.40 or higher.

All courses required for admission to the clinical program must be completed prior to beginning the clinical year. These requirements include:

1. A minimum of 90 semester hours (excluding physical education).
2. All university FKL Liberal Arts requirements.
3. Writing and computation requirements for Gordon Rule (Florida Board of Governor’s Regulation 6.017).
4. All sciences and mathematics requirements listed below, including Common Prerequisites and those specific to USF, with a “C” or higher in each course.

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet FKL Liberal Arts Requirements thereby transferring maximum hours to the university.

A student who transfers with fewer than 60 semester hours of acceptable credit must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade. They may be completed at a Florida College System institution or other institution or at USF.

1) General Biology I with Lab (e.g. BSC1010C, BSC1011C, BSC1010/1010L, BSC 1011/1011L, BSC 2010/2010L,
2) Human Anatomy and Physiology I with Lab (e.g. BSC 1085/1085L, BSC 1085C, BSC 2094C, BSC 2085/2085L, BSC 1011C, BSC 2011, PCB 4703, PCB 3703, PCB 3702, PCB 3702, (student's choice of one of these three labs), PCB 3703C, BSC 2085C, BSC 2023C)

3) Human Anatomy and Physiology II with Lab (e.g. BSC 1086/1086L, BSC 1086C, BSC 2094C, ZOO 3733C, ZOO 3731, PCB 3134C, PCB 2131, BSC 1094, BSC 2096, BSC 2011, PCB 2510/2510L, BSC 2086C)

4) General Microbiology with Lab (e.g. MCB 3020/3020L, MCB 2013/2013L, MCB 2013C/2013L, MCB 3023/3023L, MCB 3020C, MCB 2010/2010L)

5) General Chemistry I with Lab (e.g. CHM 1045/1045L, CHM 1045C, CHM 2045/2045L)

6) General Chemistry II with Lab (e.g. CHM 1046/1046L, CHM 1046C, CHM 1040/1040L, CHM 1041/1041L, CHM 1046E/1046L, CHM 2046/2046L)

7) Organic Chemistry I with Lab (e.g. CHM 2210/2210L, CHM 2210C CHM 2210/2211L, CHM 3210C, CHM 3210/3210L, CHM 3210/3211L)

8) Organic Chemistry II with Lab (e.g. CHM 2211/2211L, CHM 2211C, CHM 2210C, CHM 2210/2210L, CHM 3211/3211L, CHM 3210/3210L, CHM 3210/3211L, CHM 3210C)

9) Statistics (e.g. STA 2023, STA 2014, STA 2022, STA 2024, STA 2321, STA 3023)

Students should carefully follow all prerequisite requirements for individual courses. The USF courses recommended to meet the state mandated prerequisites as listed above are:

- BSC 2010 Cellular Processes and BSC 2010L Cellular Processes Laboratory
- BSC 2011 Biodiversity and BSC 2011L Biodiversity Laboratory
- BSC 2093C Human Anatomy and Physiology I or BSC 2085 Anatomy and Physiology I for Health Professionals and 2085L Anatomy and Physiology Lab I for Health Professionals
- MCB 3020C General Microbiology
- CHM 2045 General Chemistry I and CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II and CHM 2046L General Chemistry II Laboratory
- CHM 2210 Organic Chemistry I and CHM 2210L Organic Chemistry Laboratory I
- CHM 2211 Organic Chemistry II and CHM 2211L Organic Chemistry Laboratory II
- STA 2023 Introductory Statistics

In addition to the Common Prerequisites listed above, the following courses are required for the degree at USF:

- MAC 1105 College Algebra (or MAC 1147)
- PCB 3023 Cell Biology and PCB 3023L Cell Biology Laboratory
- PCB 4234 Principles of Immunology (or Immunology)
- MCB 4115C Determinative Bacteriology
- BCH 3023 Biochemistry (BCH 3023)

Ability to use computers is essential for work in a modern laboratory. Hospitals recommend elective courses in use of computers and in management.

Upon successful completion of this curriculum and acceptance by one of the affiliated hospitals, the student will complete 12 continuous months of training at that hospital. Hospital programs begin in July or early August each year, and some hospitals also have programs beginning in January. During this clinical training, the student will continue to be registered as a full time student of the university and will receive a total of 30 credit hours of work in:

- MLS 4038 Introduction to Medical Technology
- MLS 4861 Clinical Immunology
- MLS 4863 Clinical Microbiology
- MLS 4865 Clinical Immunohematology
- MLS 4860 Clinical Urinalysis and Body Fluid
- MLS 4862 Clinical Hematology
- MLS 4864 Clinical Chemistry
- MLS 4866 Clinical Laboratory Management and Education

These courses, listed under "Interdisciplinary Arts and Sciences," will be taught at the hospital. A "C" or higher must be earned in each course. Students successfully completing this program will be granted a Bachelor of Science degree in Medical Technology.

**Chemistry Faculty**

Medical Technology Faculty

• COMMUNICATION (SPE) (CIP = 23.1304)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Communication focuses on the concepts, theories, and practice of human communication. Students apply their understanding of communication research and principles to personal, professional, and community relationships and concerns.

The department encourages students to tailor their programs of study to meet their own interests. Majors select from one of six areas of concentration: Relational Communication, Organizational Communication, Health Communication, Culture and Media, Performance Studies, or Public Advocacy.

The Honors Program in Communication allows qualified students to pursue advanced study. A minor in Communication is also available.

Requirements for the Major in Communication (B.A.)

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

Students must complete SPC 2608, Public Speaking, before being admitted to the Communication major. A student can be admitted to the university without SPC 2608, but it must be completed as part of requirements for the major.

A major in Communication requires a minimum of 36 credit hours from departmental offerings. A final grade of at least C- is required for a departmental course to count toward a Communication major. Courses may not be taken S/U where a grade option exists.

I. Prerequisites (3 credit hours):
This course is a prerequisite for declaring the communication major:
SPC 2608 Public Speaking

II. Required Courses (12 credit hours):
Students must take each of these four courses as early as possible in the major. These courses are prerequisites for taking many of the more advanced courses in the respective concentrations.

COM 2000 Introduction to Communication
ORI 2000 Introduction to Communication as Performance
SPC 3301 Interpersonal Communication
SPC 2541 Persuasion

III. Area of Concentration (15 credit hours):
Students must take a minimum of fifteen hours in one of the six areas of concentration. Many courses are listed in more than one concentration. Therefore, students should plan their concentration coursework in ongoing consultation with the advisor.

Relational Communication (SRC)
COM 3014, COM 4020, COM 4021, COM 4022, COM 4030, COM 4151, COM 4490, COM 4702, COM 4710, ORI 4019, ORI 4220, ORI 4460, SPC 3212, SPC 3425, SPC 3710, SPC 4305, SPC 4307, SPC 4310, SPC 4321, SPC 4431, SPC 4701, SPC 4714

Organizational Communication (SOG)
COM 3120, COM 3122, COM 4050, COM 4124, COM 4128, COM 4151, COM 4530, SPC 3212, SPC 3425, SPC 3602, SPC 4714

Health Communication (SHC)
COM 4020, COM 4022, COM 4702, SPC 3212, SPC 4305, SPC 4321, SPC 4431

Culture and Media (SMD)
COM 3014, COM 3051, COM 3052, COM 3413, COM 4016, COM 4021, COM 4030, COM 4050, COM 4104, COM 4414, COM 4431, ORI 3950, ORI 4019, ORI 4410, ORI 4931, SPC 3230, SPC 3513, SPC 3602, SPC 3653, SPC 3680, SPC 3710, SPC 4201, SPC 4310, SPC 4632, SPC 4683, SPC 4701, SPC 4714

Performance Studies (SPS)
COM 3014, COM 3413, COM 4016, COM 4030, COM 4104, ORI 3950, ORI 4019, ORI 4120, ORI 44150, ORI 4220, ORI 4310, ORI 4320, ORI 4410, ORI 4460, ORI 4931, SPC 3653, SPC 4201

Public Advocacy (SAD)
COM 3014, COM 3413, COM 4016, COM 4040, COM 4050, COM 4104, ORI 4019, ORI 4410, SPC 3230, SPC 3425, SPC 3513, SPC 3602, SPC 3653, SPC 3680, SPC 3710, SPC 4683, SPC 4701, SPC 4714

IV. Departmental Electives (6 credit hours):
Students must take 6 additional hours of elective coursework from any concentration in the Department of Communication at the 3000-level or higher.

V. The concentrations of the following courses will be designated when offered

- COM 4958 Communication Senior Capstone
- SPC 4930 Selected Topics (titles and topics vary each semester)
- SPC 4932 Senior Seminar

VI. The following courses are contracted individually between student and instructor. The concentration will be designated when the course is contracted.

- SPC 4900 Directed Readings
- SPC 4903 Honors Readings
- SPC 4905 Undergraduate Research
- SPC 4970 Honors Thesis

Communication Honors Program

The Honors Program in Communication provides an opportunity for exceptional undergraduate students in Communication to work closely with a faculty member in an intensive research experience. Each Honors student is required to complete and defend an undergraduate Honors Thesis. Application to the program ordinarily occurs during the second semester of the junior year or prior to completion of 90 semester hours. Admission to the program is based on the student’s overall academic record, performance in communication courses, and recommendations of faculty. To be admitted to the program, a student should have at least a 3.5 GPA in all communication courses and a 3.0 cumulative GPA. Students are required to complete 3 hours of Honors Reading and 3 hours of Honors Thesis. Students interested in the Honors Program should consult the department for further information about admission and program requirements.

Requirements for the Minor in Communication (SPE)

The minor in Communication is available to students pursuing any other major at USF. The minor in Communication requires a minimum of 18 hours of departmental coursework, including:

- SPC 2608 Public Speaking
- COM 2000 Introduction to Communication

Twelve credit hours may be selected from among departmental offerings and must include a minimum of 6 hours at the 3000-level or higher.

A grade of “C-minus” is required for a departmental course to count toward a Communication minor. Courses may not be taken S/U where a grade option exists.

Communication Faculty


• ECONOMICS (ECO) (CIP = 45.0601)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Economics offers a clear and logical way of thinking about complicated issues such as unemployment, inflation, pollution, and crime. The department offers broad course choices allowing students to tailor their programs to provide training for professional careers in business, teaching, government, and law. Students interested in majoring or minoring in economics should contact the undergraduate advisor in the Economics Department for more information.

Requirements for the Major in Economics (B.A.)

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

The State of Florida has identified common course prerequisites for the major in Economics. These courses must be completed with a minimum grade of “C” before the degree is granted. If the courses are not transferred in, they may be taken at USF.

- ECO X013 Economic Principles: Macroeconomics or ECO XXXX 3 credit hours
- ECO X023 Economic Principles: Microeconomics or ECO XXXX 3 credit hours

Coursework in the Economics Major:

A student may earn a Bachelor of Arts degree with a major in Economics by satisfactorily completing 34 credits in
Economics in addition to college requirements. The 34 credits must include:

ECO 2013 Economic Principles: Macroeconomics  
ECO 2023 Economic Principles: Microeconomics  
ECO 3101 Intermediate Price Theory  
ECO 3203 Intermediate Macroeconomics  
QMB 2100 Business and Economic Statistics  
QMB 3200 Business and Economics Statistics II  
Fifteen credit hours of Economics electives numbered 3000 or higher  
ECO 4935 Special Topics in Economics: Exit Requirement in Economics (one credit hours)

Notes:
1. MAC 2233 Business Calculus or MAC 2311 Calculus 1 (or the equivalent) must be taken as a prerequisite for ECO 3101 and ECO 3203.
2. ECO 1000 (if taken before both ECO 2013 and ECO 2023) if student receives a C- or better may be substituted for a maximum of 3 hours of upper level elective credit.
3. Students must obtain a grade of "C-" or higher in ECO 3101 or ECP 3703 (formerly ECO 3100) in order to enroll in any course for which ECO 3101 or ECP 3703 is a prerequisite.
4. No more than 3 hours credit can be applied toward a major from ECO 4905 and/or ECO 4914.
5. At least 12 hours of upper level credit must be taken in residence at USF.
6. Economics majors working at the regional campuses may not be able to fulfill all economics course requirements at those campuses.
7. Students must obtain a grade of "C-" or higher in all courses required for the major or minor in Economics.
   - All students entering USF for the first time, in Fall 2012 or later, who earn 3 (three) D and/or F grades in any of the following courses at USF: ECO 2013, ECO 2023, ECO 3101, ECO 3203, QMB 2100, QMB 3200 and MAC 2233 (or MAC 2311 or equivalent) will be required to change their major to a major more appropriate to their goals and academic performance, and to a major that is not conferred by the Department of Economics through either the College of Arts and Sciences or the College of Business.
   - All continuing USF students who entered USF prior to Fall 2012 and who have not earned any D or F grades in any of the following courses at USF: ECO 2013, ECO 2023, ECO 3101, ECO 3203, QMB 2100, QMB 3200 and MAC 2233 (or MAC 2311 or equivalent) by the beginning of Fall 2012, will also be allowed 3 (three) D and/or F grades in those courses before being required to change their major to a major more appropriate to their goals and academic performance, and to a major that is not conferred by the Department of Economics through either the College of Arts and Sciences or the College of Business.
   - All continuing USF students who entered USF prior to Fall 2012 and who have earned 1 (one) or more D or F grades in any of the following courses at USF: ECO 2013, ECO 2023, ECO 3101, ECO 3203, QMB 2100, QMB 3200 and MAC 2233 (or MAC 2311 or equivalent) by the beginning of Fall 2012, will only be allowed 2 (two) more D and/or F grades in those courses before being required to change their major to a major more appropriate to their goals and academic performance, and to a major that is not conferred by the Department of Economics through either the College of Arts and Sciences or the College of Business.

Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

Appeals to the required change of major will be handled in the Economics Department and ONLY those students whose appeal is based on exceptional circumstances will be considered.

Advisors in the College of Arts and Sciences or the Transitional Advising Center will be available to assist students in the selection of a new major in their respective colleges.

Requirements for the Minor in Economics (ECO)

All students, regardless of college, can earn a minor in Economics by satisfactorily completing 18 hours in Economics including:

ECO 2013 Economic Principles: Macroeconomics  
ECO 2023 Economic Principles: Microeconomics  
Twelve credit hours of Economics electives numbered 3000 or higher (may include QMB 3200)  
ECO 1000, if taken before both ECO 2013 and ECO 2023 and student receives a C- or better, may be substituted for 3 hours of upper level electives. Before being recognized as a minor in economics a student must obtain program approval by the Economics Department Undergraduate Advisor. A grade point average of 2.0 or higher must be achieved in the minor course work at USF and in all minor courses completed at any institution. At least 9 hours must be taken in residence at USF.

The Economics Pre-Law Curriculum

Economic principles provide the foundation for much of our legal system. Economics offers a series of courses to
provide the abstract and applied skills required by those seeking legal careers.


The Economics Pre Law Curriculum fits easily within the Economics major or minor but is open to other students.

Five-year Bachelor/Master Degree Program

This program allows superior students with strong analytical skills and the ability to handle a fast paced, challenging program the opportunity to complete both the Bachelor and Master degrees in economics in five years.

The program requires the students to take two graduate level courses required for the MA degree during the last year in the Bachelor program. These six hours are counted as general electives (not major electives) in the undergraduate program and are also used to satisfy the requirements for the MA in economics. After completing the 120-hour Bachelor’s program, five-year students take 24 hours at the graduate level.

To be eligible for the program, a student must have completed at least 6 hours of 3000 level or above economics courses at USF (not including statistics), have an overall grade point average of 3.00 or above, and have a minimum of 3.25 cumulative grade point average in all economics courses (including statistics).

To apply for admission, send a letter to the Undergraduate Program Director in the Department of Economics stating your qualifications and desire to enter the program. To plan your program, or for additional information, see the Undergraduate Advisor in Economics.

Economics Faculty


- ENGLISH (ENG) (CIP = 23.0101)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Requirements for the Major in English (B.A.)

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution:

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System Institution. Some courses required for the major may also meet General Education Requirements, thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements, including ACT or SAT test scores, GPA, and course requirements.

Transfer students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at a Florida College System institution, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

- ENC 1101 Composition I or ENC XXXX 3 credit hours
- ENC 1102 Composition II or ENC XXXX 3 credit hours

The program in English provides three concentrations. Students must choose one concentration.

1. Literary Studies (LTS) - This program of study provides students with a knowledge of literary method, literary history, and a broad range of literary accomplishment (including knowledge of emerging fields, world literatures, and ethnic literatures). While the major places much emphasis on appreciating works of literature as artifacts produced in their own cultural contexts, it also enables students to make connections between contemporary life and the study of literature. It evaluates students’ grasp of formal and technical elements of literary practice and emphasizes the development of writing skills and the production of disciplinary writing. Successful completion of the major will enhance students’ capacity for aesthetic enjoyment, critical reflection, and effective self-expression, and may provide preparation for further study (graduate and professional schools) or communication and research skills to be used in a work environment.

2. Creative Writing (CRW) - This 36-hour program is designed for aspiring writers of fiction, poetry, and creative nonfiction. Students who graduate from this program will demonstrate the following: 1) knowledge of the forms and techniques of poetry, fiction, and creative nonfiction; 2) knowledge of literary genres and the techniques used by authors within each genre; 3) the ability to analyze literature in its cultural and philosophical context; and 4)
3. Professional Writing, Rhetoric and Technology (TCM) - This program provides students with both a practical and a theoretical orientation to communication in a variety of media and genres. The program prepares students to work as innovative professional communicators in a variety of fields – from government to business to medicine. It also prepares students for graduate programs in rhetoric, composition, and professional communication. The program produces graduates who can think critically about communication, contexts, and technology as well as compose technologically-mediated documents and products using a variety of tools.

Major requirements for English majors are listed below and require 36 credit hours. A grade of below C- will not be counted toward fulfilling the major requirements. Students may not use more than one directed study course toward meeting the major requirements. Transfer students must earn at least 15 hours in the major at USF. A 2.5 GPA in the major is required for graduation. The English Department does not accept Sign Language as a foreign language.

Literary Studies (LTS)

This concentration provides students with a knowledge of literary method, literary history, and a broad range of literary accomplishment (including knowledge of emerging fields, world literatures, and ethnic literatures). While the major places much emphasis on appreciating works of literature as artifacts produced in their own culture contexts, it also enables students to make connections between contemporary life and the study of literature. It evaluates students' grasp of formal and technical elements of literary practice and emphasizes the development of writing skills and the production of disciplinary writing. Successful completion of the major will enhance students' capacity for aesthetic enjoyment, critical reflection, and effective self-expression, and may provide preparation for further study (graduate and professional schools) or communication and research skills to be used in a work environment.

I. Required Courses (2 courses/6 credit hours):
   ENG 3014 Introduction to Literary Methodology (recommended during first 2 semesters of the major)
   ENG 4013 Literary Criticism (recommended before any 4000-level courses are taken)

II. Additional Requirements (1 course from each of the following groups) (5 courses/15 credit hours):

A. Medieval / Renaissance Group
   ENL 3015 British Literature to 1616
   ENL 3331 Early Shakespeare
   ENL 3332 Late Shakespeare
   ENL 4311 Chaucer
   ENL 4338 Advanced Studies in Shakespeare

B. 17th/18th Century British Group
   ENL 3230 British Literature 1616-1780
   ENL 4341 Milton
   ENL 3016 Studies in 17th and 18th Century British Literature

C. 19th Century British Group
   ENL 3251 British Literature 1780-1900
   ENL 4122 Nineteenth-Century British Novel
   ENL 3017 Studies in Nineteenth-Century British Literature

D. American Before 1900 Group
   AML 3031 American Literature from the Beginnings to 1860
   AML 3032 American Literature from 1860 to 1912
   AML 4111 Nineteenth-Century American Novel
   AML 4261 Literature of the South

E. 20th or 21st Century American or British Group
   AML 3051 American Literature from 1912 to 1945
   AML 4121 Twentieth-Century American Novel
   AML 4261 Literature of the South
   ENL 3026 Studies in 20th Century Literature
   ENL 3273 British Literature 1900-1945
   ENL 4132 British Novel Conrad to the Present
   LIT 4233 Postcolonial Literature

III. Cultural-Critical Studies Group (2 courses/6 credit hours):
   AML 3604 African American Literature
   AML 3630 Latino/a Literature
   AML 4111 Nineteenth-Century American Novel
   AML 4211 Twentieth-Century American Novel
   AML 4933 Studies in American Literature and Culture
   ENG 4060 History of the English Language
   ENL 4122 Nineteenth-Century British Novel
ENL 4132 British Novel Conrad to the Present
LIN 4671 Traditional English Grammar
LIT 3022 Modern Short Prose
LIT 3031 Survey of Poetry
LIT 3043 Modern Drama
LIT 3093 Contemporary Literature
LIT 3101 Literature of the Western World through Renaissance
LIT 3102 Literature of the Western World since Renaissance
LIT 3144 Modern European Novel
LIT 3410 Religious and Philosophical Themes in Literature
LIT 4233 Postcolonial Literature
LIT 4386 British and American Literature by Women

IV. Electives (3 courses/9 credit hours):
AML 4300 Selected American Authors
ENG 3113 Film as Narrative Art
ENG 4674 Film and Culture
ENL 4303 Selected British Authors
LIT 3374 Bible as Literature
LIT 3930 Selected Topics in Literature
LIT 4930 Selected Topics in English Studies
Any additional courses listed under, “Additional Requirements” above.
Any major CRW course listed under the CRW concentration
Any major ENC course listed under the TCM concentration.

Creative Writing (CRW)

This 36-hour concentration is designed for aspiring writers of fiction, poetry, and creative nonfiction. Students who graduate from this program will demonstrate the following: 1) knowledge of the forms and techniques of poetry, fiction, and creative nonfiction; 2) knowledge of literary genres and the techniques used by authors within each genre; 3) the ability to analyze literature in its cultural and philosophical context; and 4) the ability to critique student manuscripts and offer constructive feedback within a workshop setting.

1. Writing Requirements: Six courses (18 credit hours) as follows:
CRW 3111 Form and Technique of Fiction
CRW 3311 Form and Technique of Poetry
(CRW 3111 must be taken before any other courses in the Fiction series, and CRW 3311 must be taken before any other courses in the Poetry series. Students are urged to take these two courses during the first year of their major.)

Any four of the following courses:
CRW 3112 Fiction I
CRW 3121 Fiction II
CRW 3312 Poetry I
CRW 3321 Poetry II
CRW 4930 Selected Topics in Creative Writing
CRW 4930 may be repeated twice, with different content, for a total of six (6) credits hours. Choices would include creative nonfiction, screenwriting, craft courses in fiction/poetry, young adult literature, lyric poetry, etc.).

Literature Requirements: Six courses as follows:

One of the following courses that concentrates on literature written pre-1900:
AML 3031 American Literature from the Beginning to 1860
AML 3032 American Literature from 1860 to 1912
AML 4111 Nineteenth-Century American Novel
ENG 4060 History of the English Language
ENL 3015 British Literature to 1616
ENL 3016 Studies in 17th and 18th Century British Literature
ENL 3017 Studies in 19th Century British Literature
ENL 3230 British Literature 1616-1780
ENL 3251 British Literature 1780-1900
ENL 3331 Early Shakespeare
ENL 3332 Late Shakespeare
ENL 4122 19th Century British Novel
ENL 4311 Chaucer
ENL 4338 Advanced Studies in Shakespeare
### Professional Writing, Rhetoric and Technology (TCM)

This undergraduate degree concentration provides students with both a practical and a theoretical orientation to communication in a variety of media and genres. The program prepares students to work as innovative professional communicators in a variety of fields – from government to business to medicine. It also prepares students for graduate programs in rhetoric, composition, and professional communication. The program produces graduates who can think critically about communication, contexts, and technology as well as compose technologically-mediated documents and products using a variety of tools.

1. **Required Courses (15 credit hours):**
   - ENC 3242 Technical Communication for Majors
   - ENC 3414 New Media for Technical Communication
   - ENC 4218 Visual Rhetoric for Technical Communication
   - ENC 4311 Advanced Composition
   - ENC 4940 Professional/Technical Communications Internship

2. **Electives: 7 courses from the following: (21 credit hours):**
   - ENC 3250 Professional Writing
   - ENC 3310 Expository Writing
   - ENC 3371 Rhetorical Theory for Technical Communication
   - ENC 4260 Advanced Technical Writing
   - ENC 4931 Selected Topics in Technical and Professional Writing
   - Any courses listed in the Literary Studies concentration.
   - Any courses listed in the Creative Writing concentration.

### Requirements for the Minor in Literary Studies (ENG)

Requirements (15 credit hours):

1. One AML major course
2. Two ENL major courses
3. One 4000-level course from the LTS concentration
4. One additional course from any English Department concentration: LTS, CRW, TCM

### Requirements for the Minor in Creative Writing (ENW)

Requirements (15 credit hours):

1. CRW 3111 Form & Technique of Fiction
2. CRW 3311 Form & Technique of Poetry
3. Any two of the following:
   - CRW 3112 Fiction I
   - CRW 3121 Fiction II
   - CRW 3312 Poetry I
   - CRW 3321 Poetry II
   - CRW 4930 Selected Topics in Creative Writing
4. Any major course listed in the LIT concentration

### Requirements for the Minor in Professional Writing, Rhetoric and Technology (ENT)

Requirements (15 hours):

1. ENC 3242 Technical Communication for Majors
2. One of the following:
   - ENC 4260 Advanced Technical Writing or ENC 4311 Advanced Composition
3. Any three of the following:
   - ENC 3250 Professional Writing
   - ENC 3310 Expository Writing
   - ENC 3416 New Media
   - ENC 4020 Rhetorical Theory
   - ENC 4218 Visual Rhetoric
   - ENC 4931 Selected Topics in Professional Technical Writing: Editing
   - ENC 4931 Selected Topics in Professional Technical Writing: Workplace Writing and Culture
   - ENC 4931 Selected Topics in Professional and Technical Writing
4. One course from the LTS major

English Honors Program

The Department of English Honors Program provides a carefully selected group of seniors with opportunities for advanced scholarship:
A. Closer contact with faculty tutors than students in the regular major program;
B. An opportunity to work and exchange ideas in the stimulating environment of a small group of fellow students with similar aims and abilities;
C. An opportunity to develop individual initiative and sophisticated critical skills.

The English Honors Program will benefit those interested in graduate work, advanced professional study, or greater intellectual challenges.

Admissions Criteria

Students may apply for the program after completing 80 hours of coursework (90 before actual admission). Applicants should have a GPA of 3.30 in the major and an overall GPA of 3.00 and should submit signatures of recommendation from two English faculty supporting their applications.

After screening all applications, the Department’s Honors Committee will select participants for each year’s program.

Requirements for Completion of Departmental Honors

1. The Honors student will complete the requirements of his/her chosen English major as described in the current catalog.

2. The Honors program requires 9 hours of Honors-level work.
   A. All Honors students are required to complete at least one (three-hour) Honors seminar (ENG 4935 or ENG 4936).
   B. Students may select from the following options to fulfill the remaining six hours of credit in Honors:
      a. A second (three-hour) Honors seminar (ENG 4935 or ENG 4936).
      b. A three-hour independent study. The independent study should be connected to an eligible upper-level course in the major being taught in that semester.**
         A list of courses available for this option will be made available prior to registration each semester. Students will attend some or all of the scheduled course meetings but will be enrolled in an independent study with the instructor. The independent study will be considered a special "Honors section" of the course and will require additional work that may include extra reading, class presentations, and advanced research-based writing. To enroll in an independent study, students will need written permission of the instructor, who will determine an Honors-appropriate workload for the course. The proposed plan for independent study must be approved by the Honors Committee and filed with the Undergraduate Director prior to registration. Students may count a maximum of one independent study in fulfillment of their degree requirements.
      c. A three-hour Honors thesis, supervised by a member of the English faculty. The Director of the English Honors Program will serve as instructor of record for the thesis hours. Under the direction of the instructors of the Honors seminars and/or the Director of the English Honors Program, the student will choose a member of the English Department faculty to serve as director of his/her thesis and one or two additional faculty members to serve as readers of the thesis. The completed thesis must be at least 25-pages in length, not including bibliography.
      d. A three-hour graduate-level course. Enrollment in a graduate course is limited to Honors students in their final semester and requires written permission of the Undergraduate Director, Graduate Director, and the instructor of the course. To be eligible, students must have completed at least one Honors seminar with a grade of A or A+.
   3. Of the nine hours required for Departmental Honors, a maximum of six hours may be counted towards the requirements for the major (historical distribution requirements or electives).

4. To graduate with Departmental Honors, the student must satisfy the following requirements:
   A. Complete 9 hours of English Honors courses as described above with a 3.30 GPA;
   B. Complete all major requirements with a 3.30 GPA and academic coursework with an overall GPA of 3.0.

5. The student who completes all requirements above will graduate with Honors in English. The credit hours completed within the program by the student who does not complete all Honors requirements will count toward the baccalaureate degree.

** Faculty who are willing to accommodate the extra needs of Honors students will notify the Undergraduate Director before registration to have their course put on the list of eligible courses. The Honors student will enroll in an independent study but will attend the scheduled course and complete the bulk of the reading and written requirements for the course in addition to a special Honors project for the course (this could include a formal presentation of research, an independent research project, a longer research paper, a long annotated bibliography, a larger collection of creative work, etc. The independent study represents 3 hours of coursework.
English Faculty


• ENVIRONMENTAL SCIENCE AND POLICY (ESP) (CIP = 03.0104)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

The status of the earth’s environment has been a major concern since the 1960’s. As we enter the 21st century, it represents one of the most critical issues facing nearly all nations individually as well as the earth community as a whole. Increased population, technology, globalization and diminishing natural resources all play an important role in the changing environment. As a consequence, governments at all levels are devoting resources to help understand the problems that we are facing and to aid in their mitigation. This includes everything from public education to cleaning up toxic waste sites.

The environmental industry is a growing arena for employment for degree holders at all levels. Students completing the Bachelor of Science (B.S.) in Environmental Science and Policy have found employment with government agencies (city, county, state, and federal), private industry, and non-profit organizations. Examples of careers include field scientist, research scientist, policy analyst, lobbyist, conservationist, and educator. Some also go on to attend graduate or law school.

The B.S. in Environmental Science and Policy was approved in 1995. This interdisciplinary program spans multiple colleges within the university but is housed in the Department of Geography in the College of Arts and Sciences. All majors in the program must complete the required courses including two introductory courses in environmental science and policy, one semester of calculus, two semesters each of general biology and general chemistry, environmental ethics, environmental politics and policy, statistics and physical science (either geology or physics). In addition, majors take 6-7 courses that allow them to sub-specialize in environmental science or in environmental policy. Students choosing to sub-specialize in environmental science take a second semester of calculus, one semester of organic chemistry and lab, and four electives within designated tracks. Students choosing to sub-specialize in policy take environmental law and environmental economics and four electives within designated categories. Finally, all majors must complete an upper division seminar and an internship or project. The department advisor advises ESP majors. Unless stated otherwise, a grade of C- is the minimum acceptable grade.

Requirements for the Major in Environmental Science and Policy (B.S.)

Prerequisites (Recommended Prerequisites) for Students Transferring from a Florida College System Institution

Students wishing to transfer to USF should complete the A.A. degree at the Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students are encouraged to complete the following required supporting major courses prior to entering the university. Unless stated otherwise, a grade of C- is the minimum acceptable grade.

BSC X010 and BSC 2010L Biology 1 and Lab
BSC X2011 and BSC 2011L Biology II and Lab
CHM X045 & CHM 2045L General Chemistry & Lab
CHM X046 & CHM 2046L General Chemistry II & Lab
STA X023 Statistics
MAC X311 Calculus I

REQUIREMENTS FOR ALL ENVIRONMENTAL SCIENCE MAJORS

EVR 2002 Environmental Science: Regional and Global Issues
EVR 2001L Introduction to Environmental Science Lab
EVR 2861 Introduction to Environmental Policy
EVR 4921 ESP Seminar
BSC 2010 Biology I
BSC 2010L Biology Lab I
BSC 2011 Biology II
BSC 2011L  Biology Lab II
CHM 2045  General Chemistry I
CHM 2045L  Chemistry Lab I
CHM 2046  General Chemistry II
CHM 2046L  Chemistry Lab II
PUP 4203  Environmental Politics and Policy
PHI 3640  Environmental Ethics
EVR 4910  ESP Project or EVR 4940 ESP Internship
EVR 4921  Environmental Science and Policy Seminar
MAC 2311  Calculus I or MAC 2281 or MAC 2241
STA 2023  Introductory Statistics

Geology or Physics:
GLY 2010  Dynamic Earth
GLY 2000L  Essentials of Geology Lab or GLY 2100 Historical Geology
GLY 2000L  Essentials of Geology Lab
or
PHY 2048  General Physics I – Calculus Based and PHY 2048L General Physics I Lab
or
PHY 2053  General Physics I and PHY 2053L General Physics I Lab

Science Track
MAC 2242  Life Sciences Calculus II or MAC 2282 or MAC 2312
CHM 2210  General Chemistry I
CHM 2210L  General Chemistry I Laboratory
Plus 4 four approved science-related electives.

Policy Track
GEO 4502  Economic Geography
POS 3697  Environmental Law
Plus four approved policy-related electives.

All students majoring in Environmental Science and Policy are required to see the advisor (Katie Kosmoski - see below for contact information) each semester prior to registration for the following term. Students who are eligible for an internship must see the internship coordinator (Dr. Connie Mizak; (813)-974-3101; cmizak@usf.edu) six weeks prior to the beginning of the semester in which they will complete the internship.

Requirements for the Minor in Environmental Policy (ESP)
A total of 19 credits are required for the minor in Environmental Policy, 12 of which must be completed at USF. The Minor in Environmental Policy consists of the following program outline:

Required Core Courses (7 credit hours):
EVR 2002  Environmental Science
EVR 2001L  Introduction to Environmental Science Lab
EVR 2861  Introduction to Environmental Policy

Three of the following four courses (12 credit hours):
PUP 4203  Environmental Politics and Policy
PHI 3640  Environmental Ethics
GEO 4502  Economic Geography
POS 3697  Environmental Law
Plus one approved policy-related elective.

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Environmental Science and Policy Faculty

Department Chairperson: K. Archer; Director: P. Reeder; Professors: A. Njoh; Associate Professors: P. Reeder, E. Strom, P. van Beynen; J. Collins; Assistant Professors: F. Akiwumi, Assistant Professors: K. Alsharif, J. Downs; Instructors: M. Hafen, R. Jones, C. Mizak; L. Walker; Adjuncts: G. Anderson, D. Weir.

• GEOGRAPHY (GPY) (CIP = 45.0701)
  TOTAL PROGRAM HOURS = 120 CREDIT HOURS

The degree program in Geography consists of at least 38 credit hours, 20 of which are associated with 7 core courses required of all majors. Students choose elective courses that should total at least 18 hours. Upper level electives offer applied and techniques orientations for students, depending on their interests, to complement the core course structure for the major.

Electives in physical geography focus on major environmental systems including the hydrosphere, atmosphere, geosphere, and biosphere. Particular emphasis is placed on the human modification of the natural environment and the global interconnections of the major earth systems.

Electives in human geography focus on the social and spatial effects of the growth of cities, including issues such as the historical evolution of urban form and function, land-use changes and conflicts, economic restructuring, the growth and decline of inner-cities, and urban racial and ethnic relations.

Students are encouraged to seek assistance with the choice of electives through the department undergraduate advisor.

Requirements for the Major in Geography (B.A.)

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Two introductory courses in Geography with GEO prefix (6 credit hours) must be completed:

Major Course Requirements

Required core courses (7 courses + Physical Geography Lab):

- GEO 2200 Intro to Physical Geography
- GEO 2200L Intro to Physical Geography Lab
- GEO 2400 Intro to Human Geography
- GEO 3164C Research Methods in Geography
- GEO 4933 Geography Colloquium
- GIS 3006 Computer Cartography
- GIS 4043C Geographic Information Systems
- GEA XXXX One course with GEA prefix
  - Choose from: GEA 2000 World Regional Geography
  - GEA 3194 Regional Geography
  - GEA 3405 Geography of Latin America
  - GEA 3500 Geography of Europe
  - GEA 3703 Geography of Asia

Supporting/Elective Courses:

With the help of their advisor, students must select from among the following list of courses to provide at least 18 credit hours of additional course work:

- GEO 3602 Urban Geography
- GEO 4114C Geographic Techniques & Methodology
- GEO 4204C Topics in Physical Geography
- GEO 4210 Process Geomorphology
- GEO 4244 Tropical Meteorology
- GEO 4265 Soil Genesis and Classification
- GEO 4280C Hydrology
- GEO 4284 Water Resources Management
- GEO 4300 Biogeography
- GEO 4340 Natural Hazards
- GEO 4372 Global Conservation
GEO 4421 Cultural Geography  
GEO 4471 Political Geography  
GEO 4502 Economic Geography  
GEO 4604 Topics in Urban Geography  
GEO 4700 Transportation Geography  
GEO 4930 Selected Topics  
GIS 4035C Remote Sensing of the Environment  
MET 4002 Climatology  
MET 4012C Meteorology  
URP 4052 Urban & Regional Planning  

Courses Excluded as Electives for the major:  
GEO 1930 Geography of Current Events and GEO 2371 Earth System Science  

Only four (4) combined credit hours of the following courses may be applied toward the degree:  
GEO 4900 Directed Reading  
GEO 4910 Individual Research  

Minimum Requirements for Major  
Students must earn a C- or better in all major coursework. Students must maintain a minimum 2.0 major GPA in order to graduate.  

Requirements for the Minor in Geography (GPY)  
A minor in Geography consists of 19 credit hours, with a minimum grade-point average of 2.00. The required courses are:  
GEO 2200 Introduction to Physical Geography  
GEO 2200L Introduction to Physical Geography Lab  
GEO 2400 Human Geography  
One GEA elective (3 credit hours)  
Three upper-level electives (3000-5000 level) (9 credit hours): GEO, GIS, MET or URP courses  

Students may not apply upper-level Geography electives to the Geography minor if these electives are being used to satisfy their requirements in another major.  

Geography Faculty  

• GEOLOGY (GLY=B.A./GLS=B.S.) (CIP = 40.0601) (Track 1 of 2)  
TOTAL PROGRAM HOURS = 120 CREDIT HOURS  
The Department of Geology offers programs leading to Bachelor of Arts, Bachelor of Science, Master of Science, and Doctor of Philosophy degrees. Geology is one of the broadest of all sciences because of its dependence on fundamentals of biology, chemistry, mathematics, and physics as applied to the study of the earth. As a result, undergraduate students are expected to obtain a broad background in the other sciences as well as a concentration in geology.  
The Bachelor of Science degree program provides the student with a hands-on foundation in the fundamentals of the geosciences. The Bachelor of Arts program is designed primarily for the liberal arts student who has an interest in the subject, but who is not preparing for a career in the field, or for the pre-professional school student. A student who elects the B.A. program and decides to pursue the geology profession or attend graduate school will need at least physics and field geology in his/her program.  
The graduate program in geology allows the student to pursue advanced studies in nearly all areas of geology. As a result of faculty interests and geographic location, several geologic sub-disciplines are emphasized, including applied geophysics, coastal geology, geomorphology, geochemistry, hydrogeology, paleobiology, petrology, volcanology and geoscience education.  

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution  
Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet USF’s Foundations of Knowledge and Learning (FKL) core curriculum requirements, thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.
Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they (or their equivalents) must be completed before the degree is granted. Unless stated otherwise, a grade of C is the minimum acceptable grade.

- CHM X045/X045L General Chemistry I (with lab) or CHM X045C or CHM X040/X041
- CHM X046/X046L General Chemistry II (with lab) or CHM X046C
- GLY X010C Introduction to Physical Geology or GLY X010/X010L
- MAC X311 Calculus I or MTH X281
- PHY X048C* General Physics and Laboratory I or PHY X048/X048L or PHY X053C
- PHY X049C* General Physics and Laboratory II or PHY X049/X049L or PHY X054C
- XXX XXXX Historical Geology STRONGLY recommended

*The choice of physics sequence depends on the area of geology specialization.

**Requirements for the Major in Geology (GLY) (B.A.)**

Total Geology Courses Required for the B.A. (36 credit hours):

- **a. Introductory Sequence* (4 credit hours):**
  1. One course, chosen from:
     - GLY 2010 Dynamic Earth: Introduction to Physical Geology
     - GLY 2030 Hazards of the Earth’s Surface: Environmental Geology
     - GLY 2100 History of Life
     - OCE 2001 Introduction to Oceanography
     - Or other comparable acceptable course offerings, as approved by the undergraduate advisor
  2. GLY 2000L Essentials of Geology Laboratory

*Transfer students who have taken GLY 2010C or GLY 2100C or the equivalent will be deemed to have met the introductory sequence requirements. However, ALL students are strongly encouraged to take GLY 2000L, as this course will greatly facilitate success in the upper-level offerings.

- **b. Core Courses (20 credit hours):**
  - GLY 3311C The Solid Earth: Petrology and Geochemistry
  - GLY 3402C The Solid Earth: Plate Tectonics and Earth Structure
  - GLY 3552C Sedimentary Record 1: Sedimentary Processes and Petrology
  - GLY 3720C Fluid Earth 1: Basic Principles or
  - GLY 4822C Fluid Earth 2: Hydrogeology
  - GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution*

*(Requirement is waived for students who have taken GLY2010, GLY 2000L or GLY 2010L, and GLY 2100, GLY 2100L.)*

- **c. Upper-Level Electives (12 credit hours):**
  - GLY 4554C Sedimentary Record 2: The Earth’s Surface
  - GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution (if not counted toward core requirements above)
  - GLY 4324C Physical Volcanology
  - GLY 4480C Seismology
  - GLY 3720C Fluid Earth 1: Basic Principles or GLY 4822C, Fluid Earth 2: Hydrogeology (if not counted toward Core requirements above)
  - GLY 4310C Petrology
  - GLY 4866 Computational Geology
  - GLY 4921 Geocommunications
  - GLY 4780 Geologic Field Studies
  - And/or other 3000- or 4000-level GLY course, as approved by the undergraduate advisor

- **d. Supporting Courses (24 hours):**
  - CHM 2045 General Chemistry I
  - CHM 2045L General Chemistry I Laboratory
  - CHM 2046 General Chemistry II
  - CHM 2046L General Chemistry II Laboratory
  - [MAC 2281 and MAC 2282 (recommended)] or [MAC 2241 and MAC 2242] or [MAC 2311 and MAC 2312]
  - PHY 2048, PHY 2048L, PHY 2049, PHY 2049L (recommended)
  - or PHY 2053, PHY 2053L, PHY 2054, PHY 2054L

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Requirements for the Major in Geology (GLS) (B.S.)

Total Geology Courses Required for the B.S. (44 credit hours):

a. Introductory Sequence* (4 credit hours):
   1) One course, chosen from:
      - GLY 2010 Dynamic Earth: Introduction to Physical Geology
      - GLY 2030 Hazards of the Earth’s Surface: Environmental Geology
      - GLY 2100 History of Life
      - OCE 2001 Introduction to Oceanography
      Or other comparable acceptable course offerings, as approved by the undergraduate advisor
   2) GLY 2000L Essentials of Geology Laboratory

*Transfer students who have taken GLY 2010C or GLY 2100C or the equivalent will be deemed to have met the introductory sequence requirements. However, ALL students are strongly encouraged to take GLY 2000L, as this course will greatly facilitate success in the upper-level offerings.

b. Core Courses (20 hours):
   - GLY 3311C The Solid Earth: Petrology and Geochemistry
   - GLY 3402C The Solid Earth: Plate Tectonics and Earth Structure
   - GLY 3552C Sedimentary Record 1: Sedimentary Processes and Petrology
   - GLY 3720C Fluid Earth 1: Basic Principles or GLY 4822C Fluid Earth 2: Hydrogeology
   - GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution*

*(Requirement is waived for students who have taken GLY 2010, GLY 2000L or GLY 2010L, and GLY 2100, GLY 2100L.)

c. Upper-Level Electives (14 hours):
   - GLY 4554C Sedimentary Record 2: The Earth’s Surface
   - GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution (if not counted toward core requirements above)
   - GLY 4324C Physical Volcanology
   - GLY 4480C Seismology
   - GLY 3720C Fluid Earth 1: Basic Principles or GLY 4822C Fluid Earth 2: Hydrogeology (if not counted toward Core requirements above)
   - GLY 4310C Petrology
   - GLY 4866 Computational Geology
   - GLY 4921 Geocommunications
   - GLY 4780 Geologic Field Studies
   And/or other 3000- or 4000-level GLY course, as approved by the undergraduate advisor

d. Quantitative Requirement (6 credit hours):
   Of these electives, at least six hours must be drawn from courses identified by the department as including high-quantitative content. Courses which meet this requirement include:
   - GLY 4866 Computational Geology
   - GLY 4822C Fluid Earth 2: Hydrogeology
   - GLY 4324C Physical Volcanology
   - GLY 4480C Seismology
   Others may be approved by the undergraduate advisor

e. Capstone Sequence (6 credit hours):
   - GLY 4947L Practical and Applied Geology: Laboratory Experience
   - GLY 4948L Practical and Applied Geology: Field Experience
   - GLY 4949L Practical and Applied Geology: Computational Experience
   One (1) credit of each of these labs and any combination for the remaining three (3) credits, or an approved Geology field course.

f. Supporting Courses (24 hours):
   - BSC 2010 Cellular Processes
   - BSC 2010L Cellular Processes Laboratory
   - CHM 2045 General Chemistry I
   - CHM 2045L General Chemistry I Laboratory
   - CHM 2046 General Chemistry II
   - CHM 2046L General Chemistry II Laboratory
   - [MAC 2211 and MAC 2212 (recommended)] or [MAC 2233 and MAC 2243] or [MAC 2311 and MAC 2312]
   - PHY 2048, PHY 2048L, PHY 2049, PHY 2049L (recommended)
   - or PHY 2053, PHY 2053L, PHY 2054, PHY 2054L
Free Electives (19-25 hours)

The student will choose, in consultation with his/her Geology advisor, such courses in the natural sciences that support his/her major interest in the field of geology. Courses in computer programming and additional mathematics courses are of particular value. Those students who anticipate continuing for a doctorate in graduate school are encouraged to take a foreign language, preferably French, German, or Russian.

D and F grades earned in attempting to satisfy major requirements will be used in calculating the major GPA.

Requirements for the Minor in Geology (GLY)

Sixteen (16) credit hours are required, which must include the completion of the introductory sequence courses (4 credit hours) listed above and any three Geology Core courses (12 hours).

Teacher Education Programs

Prospective elementary and secondary school teachers desiring to teach science should include basic courses in geology and related sciences as part of their curriculum.

Geology Honors Program

The purpose of the Honors Program is to provide a select group of undergraduate Geology majors an opportunity to undertake an intensive, individualized research experience. The culmination of the program is the completion and presentation of an honors thesis. To apply, interested students should contact the Geology undergraduate advisor during the second semester of the student's junior year. Admission to the program requires a GPA of 3.50 in the major and an overall GPA of 3.2.

Geology Faculty


Department of Government & International Affairs

The Department of Government and International Affairs includes programs in International Studies and Political Science. Its goal is to provide students the opportunity to study the nature of government, politics and administration at the local, national and international levels, as well as the interdisciplinary nature of the international system. Towards that end it offers students a choice of two undergraduate degrees, one in International Studies and another in Political Science. The Department of Government and International Affairs provides students with a range of courses of study and areas of concentration. For more specific details students are advised to consult the description of each specific program below.

- INTERNATIONAL STUDIES (INT) (CIP = 45.0901)
  TOTAL PROGRAM HOURS = 120 CREDIT HOURS

The major in International Studies enables students to undertake programs of study which emphasize: (a) preparation for careers in international activities, or (b) the study of particular international themes or topics, or (c) the study of particular regions or cultures. Each student develops a course of study designed to fulfill his or her career and educational goals in consultation with the International Studies advisor.

Requirements for the Major in International Studies (B.A.)

Prerequisites (Recommended Prerequisites) for Students Transferring from a Florida College System Institution

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

While the International Studies program does not have mandatory prerequisites, a student may apply up to ten credit hours of lower-level courses from the following list of courses:

- AFS 2250 Culture and Society in Africa
- ANT 2410 Cultural Anthropology
The major consists of a minimum of 36 semester hours. At least 27 of these hours (nine courses) must be from the International Studies Program offerings.

**Required Core Courses (12 credit hours)**
- INR 3011 Globalization
- INR 4083 Conflict in the World
- INR 3038 International Wealth and Power or CPO 4034 Politics of Developing Areas
- INR 3202 International Human Rights or INR 4502 International Organizations
- Plus two area studies courses from the INT upper-division electives (3 hours each).

**Elective Courses (18 credit hours):**
The additional 18 hours must include at least three elective courses (9 hours) from within the Department of Government and International Affairs; the remaining 9 hours can be selected from courses offered from other departments which are approved by the major advisor as having adequate international or cross-cultural content.

Students transferring credit hours toward a major in International Studies must complete a minimum of 21 credit hours within the Government & International Affairs Department, regardless of the number of credits transferred.

With the approval of the major advisor, credits earned in INR 4900 and INR 4910 may be used to augment or substitute for the foregoing requirements. Students are encouraged, but not required, to engage in study abroad programs, a large number of which have been approved by the USF Education Abroad Department. Credits earned in such programs apply toward graduation and many also apply to the International Studies major. A limited number of internships in the Tampa Bay area are available to provide students with real-world experience while earning credits in the major. Also, USF is affiliated with The Washington Center, an internship program in the nation’s Capitol.

**Required Supporting Courses**
Students must pass a 2000-level foreign language course (that is, at least one semester of foreign language study beyond the first year introductory courses), or complete one year of study of a non-Western language. Students who are bilingual or who are already conversationally fluent or who can translate with facility from a foreign language text are exempt from the above course requirement, but the INT faculty may require demonstration of proficiency.

Students will be provided with academic advice and counsel about other courses offered throughout the university which may support and complement their major program. INT majors should plan their programs in conjunction with the advisor who is empowered to make appropriate substitutions when educationally justified.

**Requirements for the Minor in International Studies (INT)**
The minor in International Studies is a set of International Studies courses taken by a student that approximates one half of the upper level credits required for a major. The minor consists of 18 credit hours made up of six courses as follows:
- INR 3011 Globalization
- INR 4083 Conflict in the World
- INR 3038 International Wealth and Power or CPO 4034 Politics of Developing Areas
- INR 3202 International Human Rights or INR 4502 International Organizations
- Plus two (2) upper-level courses (6 hours) chosen from the International Studies Program’s offerings.

Each student’s program must be planned with the International Studies program major advisor, who is empowered to approve appropriate substitutions when educationally justified.

- **POLITICAL SCIENCE (POL) (CIP = 45.1001)**
  **TOTAL PROGRAM HOURS = 120 CREDIT HOURS**
The undergraduate program leading to the B.A. degree in political science offers a general purpose degree, and a number of more specialized alternatives. The program is designed for students interested in and seeking to understand political problems, issues, and the nature of the political process, as well as the philosophical and legal basis of political structures and processes at local, state, national, and international levels. Satisfying the degree requirements prepares students for positions in the public and private sectors, for law school, for graduate work in political science, international relations, public administration, and related disciplines, for positions in education, and for applied political activity.
Requirements for the Major in Political Science (B.A.)

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The state mandated common course prerequisites are:

Students should complete any two introductory courses with a

- POS, INR or CPO prefix lower-level course
- 6 credit hours
  (ideally POS 1041 or POS 2041, and POS 1112 or POS 2112)

A grade of C- is the minimum acceptable grade.

A minimum of 36 credit hours is required to satisfy the requirements of the major. Students must take the 12 credit hours of required core courses in Political Science coursework. No more than six (6) credit hours can be taken from POS 4905, POS 4910 and POS 4941. Students enrolled in the Washington, D.C. semester program may have this rule altered by their advisor. (A GPA of 3.0 is required to enroll in these courses; the Chair may grant special exception for students with a GPA between 2.70 and 2.99).

In addition, all Political Science majors are required to take at least three (3) credit hours of Economics coursework. (Please see an advisor for recommendations).

**Required Core Courses (12 credit hours)**

- CPO 2002 Introduction Comparative Politics or INR 2002 Introduction to International Relations
  - Note that either CPO 2002 or INR 2002 must be taken as a core course. However, the other course not taken as a core course may be taken as an elective.

- POS 2041 American National Government
- POT 3003 Introduction to Political Theory
- POS 3713 Empirical Political Analysis

Students should complete POT 3003 and POS 3713 by the end of their junior year; students transferring with 45 credit hours or more must complete these courses within their first two semesters in residence at USF. A grade of C- or better is required in all core courses.

**Elective Courses (24 credit hours):**

Students must choose electives from the seven fields listed below with at least one course from Field I, one course from Field II or III, and one course from any of Fields IV, V, VI, or VII. Core required courses must be completed before a course from a given field or field grouping may be taken.

**Field I: Political Theory**

- POT 3013 Classical Political Theory
- POT 4064 Contemporary Political Thought
- POT 4054 Modern Political Theory
- POT 4936 Selected Topics in Political Theory

**Field II: Comparative Government and Politics**

- CPO 4034 Politics of the Development Areas
- CPO 4930 comparative government and Politics of Select Areas
- ASN 3012 Japan Today
- ASN 3014 China Today
- ASN 3030 The Middle East
- EUS 3000 Europe
- EUS 3022 Russia
- LAS 3002 Latin America

**Field III: International Relations**

- INR 3102 International Human Rights
- INR 4403 International Law
- INR 4035 International Political Economy
- INR 4502 International Organizations
- INR 3336 Intelligence and U.S. Foreign Policy
- INR 4254 Africa in World Affairs
- INR 3011 Globalization
- INR 3018 World Ideologies
- INR 3033 International Political Cultures
- INR 3038 International Wealth and Power
- INR 3084 International Terrorism
INR 3141 Global Security Policy
INR 3202 International Human Rights
INR 4083 Conflict in the World

Field IV: American National and State Governments
POS 2080 The American Political Tradition
POS 3182 Florida Politics and Government
POS 4413 The American Presidency
POS 2112 State and Local Government and Politics
POS 3453 Political Parties and Interest Groups
POS 4424 The American Congress
POS 3173 Southern Politics
POS 4204 Political Behavior, Public Opinion and Elections

Field V: Urban Government and Politics
POS 3142 Introduction to Urban Politics and Government
URP 4050 City Planning and Community Development

Field VI: Public Policy
INR 3102 American Foreign Policy
PUP 4203 Environmental Politics and Policy
PUP 4002 Public Policy
URP 4050 City Planning and Community Development

Field VII: Law and Politics
INR 4403 International Law
POS 3691 Introduction to Law and Politics
POS 4614 Constitutional Law I
POS 4624 Constitutional Law II
POS 3283 Judicial Process and Politics

The following courses are not included within any of the seven fields, but may still be used as elective hours:
PAD 3003 Introduction to Public Administration
POS 4936 Senior Seminar
PAD 4204 Political Behavior, Public Opinion and Elections
POS 4941 Field Work
POS 4905 Independent Study
POS 4970 Honor Thesis
POS 3931 Selected Topics
POT 4109 Politics and Literature
POT 4936 Selected Topics in Political Theory

Students transferring credit hours toward a major in Political Science must complete a minimum of 21 credit hours within the Department, regardless of the number of credits transferred.

Requirements for the Minor in Political Science (POL)

A minor in political science requires the completion of a minimum of 18 credit hours.

Required Courses (6 credit hours):
CPO 2002 Introduction to Comparative Politics or INR 2002 Introduction to International Relations
POS 2041 American National Government
POT 3003 Introduction to Political Theory

Elective Courses (12 credit hours):
An additional 12 credit hours of courses included in the Political Science major.

Students transferring credit hours toward a minor in Political Science must complete 12 credit hours within the department, regardless of the number of credit hours transferred.

Fieldwork
Political Science has a fieldwork program that provides students with part-time internships with state and local government and with political parties at the state and local level. Academic credit is available for such internships. For further information, contact the Department of Government and International Affairs.

Honors in Political Science
The Honors Program in Political Science is designed for the outstanding undergraduate who seeks an intensive learning experience plus academic recognition during the senior year.

Eligibility:
Political Science majors with a 3.5 GPA in Political Science courses and an overall 3.0 average will be invited to participate in the honors program.

Requirements:
Students who participate must complete the Honors seminar with a grade of “B” or better and must write an Honors Thesis, POS 4970. The Honors Thesis must meet the following criteria:

a) a thesis proposal must be approved by the student’s major professor before s/he begins writing;
b) students need two thesis advisors who must approve the final version of the thesis;
c) students will publicly present their thesis and provide a copy of it to the department after the final draft has been approved;
d) the thesis must be at least 50 pages long, contain an abstract, table of contents, bibliography and footnotes/endnotes;
e) all thesis are due during the last week of classes for the semester in which the student is currently enrolled.

Pre-Law Plan in Political Science
The Political Science Program offers a pre-law plan designed for the undergraduate students who are considering a career related to law (Courses on Law and Politics are listed under Field VII of the Political Science undergraduate curriculum). The Pre-Law Plan is available to students of all majors. The courses making up the field are of particular interest to law-oriented students, but may be taken by others as well. Those following the pre-law plan are recommended to complete courses that can help them develop necessary skills to study law. Students receive the skills and information needed for entry into a number of law-related positions in business and government. Please see the departmental undergraduate advisor to obtain more information about the pre-law plan.

Prior to admission to law school, a student must take the Law School Admission Test (LSAT), as given by the Educational Testing Service of Princeton, New Jersey.

The Law School Admission Test is given simultaneously several times each year at the University of South Florida and numerous other testing centers throughout the state. Students should plan to take the test at least one year prior to planned enrollment in law school. Additional information is available from the Department of Government and International Affairs, University of South Florida.

Government and International Affairs Faculty

• HISTORY (HTY) (CIP = 54.0101)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

The discipline of history embraces a diverse world of ideas, peoples, and events. Our faculty seeks to inform and question, to provoke and to challenge our students to a higher level of understanding of the past. History at the University of South Florida offers the student an opportunity to explore civilizations from around the globe and from the ancient through contemporary eras. We encourage our students to move beyond traditional memorization of material to a critical level of thinking, analysis, and synthesis. Accomplished history majors are attractive to all kinds of employers in any number of fields, as well as to graduate and professional schools. USF history alumni can be found in such diverse professions as law, medicine, business, government, Foreign Service, politics, and education.

Requirements for the Major in History (B.A.)
A minimum of 36 semester hours of History Department courses are required to earn a B.A. degree in History. A minimum grade of C- or better must be attained in each course counted toward the 36-hour requirement. A Major GPA of at least 2.00 is necessary for graduation.

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution
Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. If students transfer with fewer than 60 semester hours of acceptable credit, they must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.
Specific state mandated common course prerequisites for admission to the major include:
AFH, AMH, EUH, WOH, LAH, ASH, HIS prefix courses 6 credit hours
Lower-Level Course Requirements for the Major (12 credit hours):

Students must complete a minimum total of 12 hours of 2000-level courses, or their equivalent, to meet the lower-level requirements of the major. A two course sequence at the 2000 level must be chosen from:

- AMH 2010 History I and AMH 2020 American History II
- EUH 2011 Ancient History I and EUH 2012 Ancient History II
- EUH 2030 Modern European History I and EUH 2031 Modern European History II

The remaining six (6) credit hours may be chosen from any of the other 2000-level History courses. Completing the lower-level requirement of the major also satisfies the common course prerequisite requirement of six lower-level credit hours of courses with prefixes of AFH, AMH, EUH, WOH, LAH, ASH or HIS.

Upper-Level Course Requirements for the Major (18 credit hours)

A minimum of 18 hours of 3000- and 4000-level courses is required to fulfill the upper-level major requirement.

Additional Required Courses for the History Major – Permits required (6 credit hours):

- HIS 4104 Theory of History (recommended in the junior year)
- HIS 4936 Pro-Seminar in History (recommended in the senior year)

A GPA of 2.0 in the History major is required before a student may be permitted into either of these courses. Additionally, these courses may not be taken during the same semester.

For elective hours outside of the major, it is recommended that History majors take ENC 3310 Expository Writing, SPC 2608 Public Speaking and LIS 2005 Library and Internet Research Skills. Additional hours may be profitably drawn from the following disciplines: Africana Studies, American Studies, Anthropology, Classics, Economics, Geography, International Studies, Political Science, Philosophy, Religious Studies, Sociology, Women’s Studies, English, Humanities and Art History.

NOTE: HIS 3938 Major Issues in History and HIS 3308 War and Society are not eligible for credit for the minor.

Requirements for the Minor in History (HTY)

Students must complete 18 credit hours in History department courses to earn the Minor in History. A minimum grade of C- or better must be attained in each course. A minimum of eight (8) hours must be completed at the University of South Florida. A minimum grade of "C-" or better must be attained in each course.

Required Course (6 credit hours):

One lower-level sequence (6 credit hours) is required, chosen from the following list:

- AMH 2010 History I and AMH 2020 American History II
- EUH 2011 Ancient History I and EUH 2012 Ancient History II
- EUH 2030 Modern European History I and EUH 2031 Modern European History II

Twelve Electives (12 credit hours):

Students must select from 3000- and 4000 upper-level History department course offerings. Note: HIS 3938 Major Issues in History and HIS 3308 War and Society are not eligible for credit for the minor.

History Faculty


The Department of Humanities & Cultural Studies

The Department of Humanities and Cultural Studies offers students a choice of two undergraduate degrees—one in Humanities and one in American Studies. Students may also minor in Humanities, American Studies and Film and New Media Studies. For more specific details, students are advised to consult the description of each specific program below.

- HUMANITIES (HUM) (CIP = 24.0103)
  TOTAL PROGRAM HOURS = 120 CREDIT HOURS

  The Humanities Program offers an interdisciplinary curriculum that investigates the visual arts, music, and literature, and the cultures from which they emerge.

Requirements for the Major in Humanities (B.A.)

Prerequisites (Recommended Prerequisites) for Students Transferring from a Florida College System
Institution

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. There are no State Mandated Common Prerequisites for this degree program.

Course Requirements for the Humanities Major - 36 credit hours, distributed as follows:

Core Courses - 12 hours:
1. HUM 2230 European Humanities: Renaissance – 20th Century
2. One additional Interdisciplinary Historical Survey:
   - HUM 2210 Studies in Culture: The Classical Through Medieval Periods
   - HUM 2250 Studies in Culture: The 20th Century or AMS 2270 20th-Century
   - AMS 3001 American Culture 1880-1915
   - AMS 3260 American Culture 1830-1860
   - HUM 2466 Latin American Civilization II: Modern Latin America
   - HUM 2733 Eastern and Western Cultures Since 1400
3. One Introductory Genre or Medium course:
   - FIL 1002 Introduction to Film Studies
   - HUM 2522 Introduction to the Cultural Study of Popular Music
   - A similar course approved by the department
4. HUM 3804 Introduction to Cultural Studies
   Students must pass this course with a B- or better in order to register for HUM 4331 Humanities Pro-Seminar.

Specialization Courses - 9 hours:
Coursework chosen in consultation with the undergraduate advisor to form a coherent focus of study. Students will follow one of two specialization areas: Modern Humanities or Ancient, Medieval and Early Modern. Up to six (6) of these hours can be taken in approved courses outside the department.

Ancient, Medieval, and Early Modern Specialization
- HUM 3407 Ancient Near East Cultures
- CLA 3435 The Hellenistic World
- HUM 3240 The Early Middle Ages
- HUM 3231 The Renaissance
- HUM 3237 The 17th Century
- HUM 3238 The Enlightenment
- HUM 3241 Central Medieval and Gothic Europe
- HUM 3242 The Enlightenment

Modern Specialization
- HUM 3242 The Enlightenment
- HUM 3244 19th Century European Culture
- HUM 3457 19th Century American Culture
- HUM 3458 20th Century American Culture
- AMS 3230 American During the 1920s and 1930s
- AMS 3001 American Culture 1880-1915

Students should consult the undergraduate advisor for information on approved specialization course clusters.

Interdisciplinary Cultural Studies Courses - 9 hours:
Students must take three courses from among the following. All are variable topics courses and may be repeated up to 6 hours with a change of topic.
- HUM 4261 Cultural Periods and Styles
- HUM 4391 Places, Spaces, and Regions
- HUM 4824 Issues in Cultural Theory
- HUM 4825 Identity and Power
- HUM 4890 Genres and Media

Pro-Seminar/Senior Seminar - 6 hours (A two-semester senior-year sequence):
1. HUM 4331 Humanities Pro-Seminar
   Students must have at least 6 credits of upper-level major coursework in addition to a B- in HUM 3804 in order to enroll in HUM 4331.
2. HUM 4931 Seminar in Humanities
   Students must pass HUM 4331 with at least a C- to register for HUM 4931.
Requirements for the Minor in Humanities (HUM)

The curriculum for the Humanities minor is comparable to that of the program for the B.A. degree, but it is less comprehensive. Course requirements are as follows:

Eighteen semester hours of Humanities courses (HUM prefix)
No more than eight of these eighteen hours may be taken below the 3000 level.

Requirements for the Minor in Film & New Media Studies (FNM)

The Minor in Film and New Media Studies (18 credit hours) is designed to train students in the historical contexts and analytical skills necessary to understand how film and new media (including television, video games, and Internet culture) communicate cultural values and shape our apprehensions of the world.

1. FIL 1002 Introduction to Film Studies
2. FIL 3052 Foundations of Film & New Media (prerequisite is FIL 1002)
3. FIL 3077 Contemporary Film & New Media (prerequisite is FIL 1002)
4. One 3000- or 4000-Level Genres/Auteurs/Production Course
   Students should choose a course from the following list:
   - ART 3612C Beginning Digital Video and Electronic Arts
   - COM 3052 Cultural Studies and Communication
   - COM 4931 Selected Topics in Media Analysis
   - GET 3522 Fantastic Films of Early German Cinema
   - GEW 4930 Selected Topics
   - HUM 4582 Film Auteurs
   - HUM 4890 Genres and Media
5. One 3000- or 4000-Level National Cinemas/Themes Course
   Students should choose a course from the following list:
   - AMS 3615 Film & American Society
   - COM 4414 Race and Gender in Popular Film and Television
   - ENG 4674 Film and Culture
   - FRE 4392 African Images in Francophone Film
   - GET 3524 German Popular Film
   - GET 4523 New German Cinema to Present
   - ITT 3504 Italian Culture through Cinema
   - ITT 4505 Italy & the Italian-American Experience
   - LIT 4930 Selected Topics in English Studies
   - REL 3111 The Religious Quest in Contemporary Films
   - SPC 4310 Relationships on Film
   - SPT 3100 Masterpieces of Hispanic Literature
   - SYG 3011 Social Problems through Film
   - WST 4335 Women and Film
6. One additional 3000- or 4000-Level Elective Film Course, 3 credits.
   Students should choose from either the Genres/Auteurs/Production or National Cinemas/Themes course lists or consult with the undergraduate advisor.

• AMERICAN STUDIES (AMS) (CIP = 05.0102)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

The American Studies major is designed for students who seek to understand the cultural patterns, beliefs and values that have unified and sometimes divided Americans. American Studies is an interdisciplinary program that emphasizes the diversity of American people and institutions; the importance of gender, race, ethnicity and social class; the material and technological foundations of American society; the development of distinctive regions within the United States; and creative expression in art, architecture, film, literature, music and photography.

Requirements for the Major in American Studies

Prerequisites (Recommended Prerequisites) for Students Transferring from a Florida College System Institution

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. There are no State Mandated Common Prerequisites for this degree program.

Course Requirements for the American Studies Major -36 credit hours, distributed as follows:
AMS 2030 Introduction to American Studies
AMS 2270 Twentieth-Century American Culture
Two 3000- or 4000-level Period courses
(e.g. AMS 3230, AMS 3001, AMS 3260)
One 3000- or 4000-level Regions or Regionalisms course
(e.g. AMS 4210)
Two 3000- or 4000-level Genre or Media courses
(e.g. AMS 3601, AMS 4305, HUM 4582, AMS 4305)
Six (6) credit hours of AMS electives

7. HUM 3804 Introduction to Cultural Studies
   Students must pass HUM 3804 with a B- or better in order to register for AMS 4936 American Studies Pro-
   Seminar.

8. AMS 4936 American Studies Pro-Seminar
   Students must have at least 6 credit hours of upper-level major coursework in addition to a B- in HUM 3804
   in order to enroll in AMS 4936 American Studies Pro-Seminar.

9. AMS 4935 Senior Seminar in American Studies
   Students must pass AMS 4936 American Studies Pro-Seminar with at least a C- to register for AMS 4935
   Senior Seminar in American Studies.

Requirements for the Minor in American Studies

18 credit hours distributed as follows:
   1. AMS 2030 Introduction to American Studies
   2. AMS 2270 Twentieth-Century American Culture
   3. Twelve (12) hours of upper-level AMS courses or other departmental courses approved by the undergraduate
      advisor.

Humanities and Cultural Studies Faculty
Chairperson: D. Belgrad; Professor: R.E. Snyder, W. Cummings; Associate Professors: D. Belgrad, A. Berish,
M. Cizmic, A. Cozzi, J. D’Emilio, R. May, B. Sadler; Assistant Professors: S. Ferguson, A. Rust, Professors Emeriti:
C.B. Cooper, S.L. Gaggi, G.S. Kashdin, D. Rutenberg; Instructors: S. Dykins Callahan, B. Cook, B. Goldberg, N.
Kantzios.

• INTERDISCIPLINARY SOCIAL SCIENCES (ISS) (CIP = 45.0101)
  TOTAL PROGRAM HOURS = 120 CREDIT HOURS

The ISS program is designed to provide an interdisciplinary integration of the social sciences for students who are
interested in a broad educational experience. ISS offers a wide choice of courses, and an opportunity to design a quality
program geared toward individual needs and interests. Students plan their program in ongoing consultation with the
advisor who approves each individual curriculum contract.

Specific requirements for a B.A. degree in Interdisciplinary Social Sciences (ISS) are outlined below:

Prerequisites (Recommended Prerequisites) for Students Transferring from a Florida College System
Institution
Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some
courses required for the major may also meet General Education Requirements thereby transferring maximum hours
to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet
the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

XXX XXXX (6 credit hours) Two introductory courses in a Social Sciences discipline.

Interdisciplinary Core Courses
Two of these courses, ISS 3010 Introduction to the Social Sciences and ISS 4935 Seminar in the Social Sciences,
introduce and employ the interdisciplinary social science perspective. These courses involve students in the study of
human life and experience; the various concepts, theories and methods used in the social sciences; and apply them to
contemporary issues and questions. STA 2122 Social Science Statistics is the third core course required for majors in
Interdisciplinary Social Sciences.

Coursework required for Interdisciplinary Social Sciences Majors
1. Required core courses for the major are:
   ISS 3010 Introduction to Social Sciences
   ISS 4935 Seminar in the Social Sciences
STA 2122 Social Sciences Statistics

2. ISS students choose two concentration areas and completes twelve hours in each. Concentrations areas must be selected from the areas of study listed below:

3. In addition, three special electives emphasize cultural diversity: Africana Studies, Women's and Gender Studies and International Studies.

4. Upon declaration of the major, students should meet with an advisor to declare concentrations, particularly before too many courses are completed in the College of Arts and Sciences. No student should assume that courses already completed will automatically count toward the ISS degree.

5. The completion of 42 approved hours of coursework from the College of Arts and Sciences (CAS), with a minimum of 30 hours at the 3000-level or above level.

6. Students must maintain a minimum grade point average of 2.0 in ISS to graduate.

7. ISS majors must satisfy two semesters of a foreign language in order to graduate.

8. Other personal curricula may be tailored for those highly motivated students, with a minimum GPA of 3.2, developed with the approval of the advisor. This course of study will be directed toward the special educational interests of these students. An in-depth Honors Research Paper will be required of students taking this option.

No more than two grades of “D” are acceptable in the ISS major.

Interdisciplinary Social Sciences Faculty

Director: S. Bingham.

- INFORMATION STUDIES (IFS) (CIP = 11.0103 - Track 2 of 4)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

The Bachelor of Science in Information Studies program is meant to prepare students for leadership careers in a wide array of environments and contexts related to the emerging knowledge economy. The program integrates critical skills in information technology with the solid theoretical and disciplinary foundations of Information Science. Emphasis is given to understanding how people interact with information and technology; the complexities of the information society; information creation, storage, and organization applications and theories; information architecture; and related knowledge and skills needed to design, implement, and evaluate new tools and approaches to solve emerging information problems. The School of Information also offers other undergraduate courses that provide the understanding and skills needed to access essential information resources in an increasingly information driven, technological world, whether in support of scholarship in academic disciplines or the occupational demands of society.

Courses are delivered in a variety of formats (face-to-face, blended, web-based). Advising is available in the School. For more information visit: http://si.usf.edu.

Students admitted to the program prior to the Fall 2011 semester follow previous catalog guidelines.

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless otherwise stated, a grade of C- is the minimum acceptable grade.

- PSY XXXX Any Psychology course
- STA X023 Introductory Statistics I or STA X122
- ECO X013 Principles of Economics (Macroeconomics)
- CGS XXXX Any Database Course
- COP XXXX Any Computer Programming course
- COP XXXX Any Object-Oriented Computer Programming course
- MAC XXXX Any Pre-Calculus or Discrete Math course
- PHI XXXX Any general ethics course

Information Studies Major Courses (30 credits):

- LIS 3261 Introduction to Information Science
- LIS 3783 Information Architecture
- LIS 3353 IT Concepts for Information Professionals
- LIS 3361 World Wide Web Page Design and Management
LIS 4482 Networks and Communication
LIS 4414 Information Policy and Ethics
LIS 4365 Web Design Technologies
LIS 3352 Interaction Design
LIS 4204 Information Behaviors
LIS 4930 Selected Topics in Information Studies

Electives (15 credits)
CIS 3360 Principles of Information Security
CIS 3362 Cryptography and Information Security
CIS 4203 Computer Forensics & Investigations
CIS 4204 Ethical Hacking
CIS 4368 Database Security and Audits
CIS 4412 Information Technology Resource Management
CIS 4510 IT Project Management
ISM 3011 Information Systems in Organizations
ISM 4213 Advanced Database Administration
ISM 4382 Global Information Systems
ISM 4400 Decision Support Systems
ISM 4480 Electronic Commerce Systems
LIS 4930 Selected Topics in Information Studies

Exit Courses (6 credits):
ENC 3249 Communication for Information Professionals
XXX XXXX A Capstone Course

School of Information Faculty

MASS COMMUNICATIONS (COM) (CIP = 09.0102)
TOTAL PROGRAM HOURS = 124 CREDIT HOURS

The University of South Florida's School of Mass Communications prides itself on its focus on contemporary professional communications grounded in the traditional liberal arts. The program emphasizes strategic thinking, persuasive presentations, clear and compelling writing, and the use of appropriate media in professional communications and media distribution. It introduces students to the theories, principles, and practices of professional communications, based on the concept of freedom of information as the cornerstone of constitutional democracy. It prepares students for future leadership roles in professional communications and media.

Graduates of the School of Mass Communications will understand the structure and functions of mass media systems as well as the basic processes of professional communication. In addition, students specialize in an area of mass communications (advertising, multimedia journalism and production, or public relations) to blend a strong introduction to professional skills with the theoretical orientation.

Mass communications students are encouraged to pursue internships in Mass Communication and related fields. If certain prerequisites and criteria are met, students may receive credit for these opportunities.

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

This is a limited access program. Students wishing to transfer to USF should complete an A.A. degree at a Florida College System institution. Some courses required for the major may also meet Foundations of Knowledge and Learning General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students must complete 18 semester hours (may not include ENC or LIT prefix courses) outside the Mass Communications curriculum and beyond the 36 hours of general education requirements prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. A grade of C (not C-) is the minimum acceptable grade.

Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses.

English Composition (minimum grade of C not C-)
MMC 3602 Mass Communications and Society
Prior to being admitted to the School of Mass Communications, a student must:

1. Complete a minimum of 30 semester hours including all General Education requirements and six hours of English composition (with a minimum grade of C not C-),
2. Earn a 2.75 overall GPA,
3. Pass a School-administered English Diagnostic Test.

A maximum of nine (9) semester hours in Mass Communications courses will be accepted from a community college or other lower-level program toward a degree in Mass Communications. It is suggested that the nine hours include the equivalent of the School core curriculum and one sequence introductory course. Approval by an appropriate advisor is required.

Entrance Requirements for School of Mass Communications

Students must meet the following requirements to gain entrance into MMC 2100 – Writing for the Mass Media:

1. 2.75 Overall GPA
2. Completion of ENC 1101 and 1102 with a minimum grade of C not C- in each
3. Minimum of 30 hours (including at least 15 semester hours for which grades and a grade point average have been awarded)
4. Minimum score of 60 percent (120 out of a possible 200 points) on the Mass Communications English Diagnostic Test OR 70 percent (140 out of a possible 200 points) for students who transfer MMC 2100 or its equivalent

All majors must complete MMC 2100 Writing for the Media, and MMC 3602 Mass Communications and Society, with a minimum grade of C not C- before any other Mass Communications course may be taken. Students failing to achieve a minimum grade of C not C- in both MMC 2100 and MMC 3602 will be disallowed as majors in the School.

Graduation Requirements for School of Mass Communications

The Mass Communications major requires six (6) hours of core curriculum courses (MMC 2100 and MMC 3602) and 31 hours of required and elective sequence courses for a total of 37 hours in Mass Communications within the 124-hour degree requirement. Six hours in Mass Communications writing courses (three hours in addition to MMC 2100) are a part of the graduation requirement.

Additional graduation requirements:

1. A 2.5 GPA in Mass Communications courses is required for graduation.
2. No student may graduate with a grade lower than C not C- in any Mass Communications course.
3. 80 hours in courses outside the School of Mass Communications, including 65 hours in liberal arts courses (as approved by the School).
4. No more than 44 hours of Mass Communications courses may be applied toward the bachelor's degree within the 124-hour graduation requirement.
5. At least 22 hours of resident School courses are required.
6. Sign Language may be used as an option by Mass Communications majors to fulfill the language requirement.

Most Mass Communications courses have prerequisites as specified in the course descriptions (these prerequisites are separate from the State Mandated Common Prerequisites for program admission listed below). Refer to each prerequisite listed to determine progressive prerequisites for each course. Students should also note that the Mass Communications major is a four-semester program at a minimum and the majority of courses are offered only during the day.

All material submitted by students as assignments in writing, reporting, editing, photography and electronic news gathering and production classes is subject to publication or broadcast. The School uses a variety of online, print and electronic media outlets.

The School of Mass Communications (B.A.) Core Curriculum

MMC 2100 Writing for the Mass Media
MMC 3602 Mass Communication and Society

Concentration Requirements:

Advertising Concentration (ADV)

Required Courses:

- ADV 3008 Introduction to Advertising
- ADV 3101 Advertising Creativity
- ADV 3300 Advertising Media Strategy
- ADV 3500 Advertising Research
- ADV 4600 Advertising Management
ADV 4800 Advertising Campaigns or MMC 4936 Selected Topics in Mass Communication Studies*
ADV 4940 Advertising Practicum
MMC 4200 Communications Law or MMC 4203 Media Ethics

Electives Requirements: (choose one course)
JOU 2100 Beginning Reporting
PUR 3000 Principles of Public Relations
RTV 3001 Introduction to Telecommunications
MMC 4936 Selected Topics in Mass Communications Studies*

*Please see the academic advisor for appropriate selected topics courses.

Other Requirements:
The following courses are required outside the School to complete sequence requirements:
ECO 1000 Basic Economics
MAR 3023 Basic Marketing

Advertising Concentration Specialization Courses:
Creative Specialization (students are required to take two courses in this specialization area)
ADV 4204 Advanced Advertising Creativity (required)
ADV 4710 Portfolio Building or MMC 4936 Selected Topics in Mass Communications Studies*

Media Specialization (students are required to take two courses in this specialization area))
ADV 4301 Advanced Media Strategy (required)
ADV 4310 Digital Media or MMC 4936 Selected Topics in Mass Communications Studies*

Journalism-News-Editorial Concentration (JOU)

Required Courses:
JOU 2100 Beginning Reporting
JOU 3101 Advanced Reporting
JOU 4181 Public Affairs Reporting
JOU 4201 News Editing I
MMC 4200 Communications Law
MMC 4203 Communication Ethics
JOU 4206 Newspaper and News Publication Design or PGY 3610 Photojournalism I

Elective Requirements:
Ten (10) credit hours, selected with advisor’s approval

Other Requirements:
The following courses are required outside the School to complete sequence requirements:
ECO 1000 Basic Economics
PHI 1103 Critical Thinking
POS 2041 American National Government
SYG 2010 Contemporary Social Problems
POS 2112 State and Local Government and Politics or POS 3142 Intro to Urban Politics & Government

Journalism-Magazine Concentration (MAG)

Required Courses:
JOU 2100 Beginning Reporting
JOU 3101 Advanced Reporting
JOU 3308 Magazine Article and Feature Writing
JOU 4201 News Editing I
JOU 4212 Magazine Design and Production
MMC 4200 Communications Law
MMC 4203 Communication Ethics
MMC 4420 Research Methods

Elective Requirements:
Seven (7) credit hours, selected with advisor’s approval

Other Requirements:
The following courses are required outside the School to complete sequence requirements:
ECO 1000 Basic Economics
CRW 2100 Narration and Description
PHI 1103 Critical Thinking
POS 2041 American National Government
SYG 2010 Contemporary Social Problems
POS 2112 State and Local Government and Politics or POS 3142 Intro to Urban Politics and Government
Broadcast News Concentration (NWS)

Required Courses:
- JOU 4181 Public Affairs Reporting
- MMC 4200 Communications Law
- MMC 4420 Research Methods
- RTV 3001 Introduction to Telecommunications
- RTV 3301 Broadcast News
- RTV 4304 TV News
- RTV 4320 Electronic Field Production

Elective Requirements:
- Ten (10) credit hours, selected with advisor's approval

Other Requirements:
- The following courses are required outside the School to complete sequence requirements:
  - PHI 1103 Critical Thinking
  - POS 2041 American National Government
  - SPC 2608 Public Speaking
  - POS 2112 State and Local Government and Politics or POS 3142 Intro to Urban Politics and Government

Broadcast-Program and Production Concentration (PGM)

Required Courses:
- MMC 4200 Communications Law
- RTV 2100 Writing for Radio and TV
- RTV 3001 Introduction to Telecommunications
- RTV 3301 Broadcast News
- RTV 4220 TV Production and Direction
- RTV 4320 Electronic Field Production
- RTV 4500 Telecommunications Programming and Management

Elective Requirements:
- Ten (10) credit hours, selected with advisor's approval

Other Requirements:
- The following courses are required outside the School to complete sequence requirements:
  - PHI 1103 Critical Thinking
  - CRW 2100 Narration and Description or ENC 3310 Expository Writing

Public Relations Concentration (PUR)

Required Courses:
- ADV 3008 Introduction to Advertising
- JOU 2100 Beginning Reporting
- MMC 4200 Communications Law or MMC 4203 Communication Ethics
- PUR 3000 Principles of Public Relations
- PUR 3500 Public Relations Research
- PUR 4100 Writing for Public Relations
- PUR 4101 Public Relations Design and Production
- PUR 4401 Public Relations: Issues, Practices, Problems
- PUR 4801 Advanced Public Relations

Elective Requirements:
- Four (4) credit hours, selected with advisor's approval

Other Requirements:
- The following courses are required outside the School to complete sequence requirements:
  - ECO 1000 Basic Economics
  - LIS 2005 Library and Internet Research Skills
  - MAN 3025 Principles of Management
  - MAR 3023 Basic Marketing
  - POS 2041 American National Government
  - POS 2112 State and Local Government and Politics or POS 3142 Intro to Urban Politics and Government

Requirements for the Minor in Mass Communications (COM)

The minor in Mass Communications is available to students pursuing any other major at USF. Students who wish
Mass Communications Faculty


Department of Mathematics and Statistics

The Department of Mathematics and Statistics offers a diversity of courses designed not only to enable the student to pursue professions in mathematics and statistics, but also to enhance the student’s competence in the fields of engineering, the physical sciences, the life sciences, and the social sciences. The department offers programs leading to the B.A., M.A., and Ph.D. degrees. The undergraduate programs emphasize the broad nature of modern mathematics and statistics and its close associations with the real world. The programs are designed to prepare students for entry into graduate school or careers in industry or secondary education.

The Department of Mathematics and Statistics consists of approximately 31 full-time faculty members, whose areas of interest include: algebra, applied mathematics, approximation theory, celestial mechanics, complex analysis, dynamical systems, functional analysis, graph theory, logic, number theory, ordinary differential equations, partial differential equations, potential theory, probability theory, real analysis, statistics, theoretical computer science, and topology.

Minimum Grade Requirements

In general, grades of C- or better are required for courses in the mathematics major and minor and in the statistics major. However, C- is not an acceptable grade for any course that is being used as a prerequisite for a follow-on course. For these courses a grade of C (2.0 GPA) or better is required. Students whose prerequisites are more than three years old will be expected to take a placement test prior to taking a follow-on course.

Teacher Education Programs

For information concerning the degree programs for secondary school teachers, please see the description given in the College of Education’s, Department of Secondary Education’s catalog section.

- MATHEMATICS (MTH) (CIP = 27.0101) (Track 1 of 4)

Requirements for the Major in Mathematics (B.A.)

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

Students wishing to transfer to USF from a Florida College System institution should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

A student who transfers without an A.A. degree and has fewer than 60 semester hours of acceptable credit must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

COP XXXX A Scientific Programming Course designed for Computer Science Majors
MAC X311 Calculus I
MAC X312 Calculus II – Calculus with Analytic Geometry II
In order to gain admission to the program a student must satisfy the following requirements:

1. have at least a 2.0 GPA for all USF college courses, and
2. have at least a 2.0 GPA for all Mathematics courses.

The courses taken to satisfy the requirements below will constitute the major program referred to in the General Graduation Requirements of the College of Arts and Sciences.

Majors are encouraged to consult the department’s undergraduate advisor before every semester. The undergraduate advisor will recommend electives that are appropriate for the student’s interests and goals.

Students are encouraged to consider the Honors Program and the Accelerated BA/MA Program, which are outlined below.

1. Mathematics Requirements (Minimum 45 credit hours)

   Core Requirement. Majors must complete the following six courses (21 credit hours):
   - MAC 2311 Calculus I
   - MAC 2312 Calculus II
   - MAC 2313 Calculus III
   - MAP 2302 Differential Equations
   - MGF 3301 Bridge to Abstract Mathematics
   - MAS 3105 Linear Algebra

   Algebra Requirement: Majors must complete the following courses (3 credit hours):
   - MAS 4301 Elementary Abstract Algebra

   Analysis Requirement: Majors must complete one of the following courses (3 credit hours):
   - MAA 4211 Intermediate Analysis I
   - MAS 4156 Vector Calculus

   Majors who complete both MAA 4211 and MAS 4156 may count one of these towards the Elective Requirement below.

   Elective Requirement. Majors must complete seven courses from the following electives (Minimum 21 credit hours):
   - COP 4313 Symbolic Computations in Mathematics
   - MAA 4211 Intermediate Analysis I
   - MAA 4212 Intermediate Analysis II
   - MAA 4402 Complex Variables
   - MAD 4401 Numerical Analysis I
   - MAD 4402 Numerical Analysis II
   - MAD 4504 Theory of Computation
   - MAP 4202 Optimization
   - MAS 4156 Vector Calculus
   - MAT 4970 Mathematics Senior Thesis
   - MHF 4406 History of Modern Mathematics
   - MTG 4214 Modern Geometry
   - MTG 4302 Introduction to Topology
   - STA 4321 Essentials of Statistics
   - STA 4442 Introduction to Probability

2. Mathematics-Related Courses (Minimum 6 credit hours)

   Students must take two courses in Science or Engineering which are required courses for the majors within those departments. The two courses need not be in the same department. Science courses must include laboratories and be offered by the departments of Cell Biology, Microbiology and Molecular Biology; Chemistry; Geology; Integrative Biology or Physics.

   Special Notes:
   - MAT 4930 Selected Topics in Mathematics may be taken as electives with the prior approval of the Chair of the department.
   - One or two courses from another department which are of high mathematical content may also be taken as electives, with the approval of the Chair of the department.
   - Students wishing to take a course in Statistics should first take STA 4442 Introduction to Probability and then STA
4321 Essentials of Statistics. Students wishing to continue towards a graduate degree in Mathematics should take MAS 4301 Elementary Abstract Algebra and MAA 4211 Intermediate Analysis I. (See also the sections on the Honors Program and the Accelerated BA/MA Program below.) Students are required to take a minimum of 12 credit hours of required courses from the department of Mathematics and Statistics at USF-Tampa.

HONORS PROGRAM IN MATHEMATICS
The program is designed for students who wish to obtain a B.A. degree that will indicate unusual strength in the field of mathematics. Successful completion of the program will be prominently displayed on the student’s diploma and will be recorded on the official USF transcript of the student’s work.

Students are eligible for admission to the program when they:
1. have completed MAS 4301 Elementary Abstract Algebra;
2. have at least a 3.0 GPA for all college courses; and
3. have at least a 3.5 GPA for all Mathematics courses.

Applications are submitted to the Undergraduate Committee in the Department of Mathematics.

The requirements for a B.A. degree in mathematics with Honors are as follows:
1. completion of the requirements of the major in Mathematics;
2. completion of MAA 4211 Intermediate Analysis I;
3. completion of MAT 4970 Mathematics Senior Thesis;
4. completion of eight Mathematics courses at or above the 4000-level;
5. at least a 3.0 average for all college courses; and
6. at least a 3.5 average for all Mathematics courses.

ACCELERATED B.A./M.A. PROGRAM
This program is designed for superior students having a solid background in high school mathematics and the ability to handle a fast paced, challenging program leading to a B.A. and M.A. degree in Mathematics in four to five years.

The program meets all the requirements for the BA degree but requires the student to take the graduate-level courses required for the M.A. degree during the last two years in the program. Up to 20 hours of graduate courses may be counted towards the M.A. degree as well as the B.A. degree but not towards the undergraduate major (that is, as free electives).

For admission to the program, a student must:
1. have completed at least 30 hours of college credit including 8 hours of 3000-level or above Mathematics courses;
2. have at least a 3.0 GPA for all college courses; and
3. have at least a 3.5 GPA for all Mathematics courses taken at the 3000-level or above.

To apply for admission, send a letter to the Chair of the Department of Mathematics stating your qualifications and desire to enter the program. An important benefit of this program is that a student is eligible to apply for a graduate teaching assistantship once he or she has completed the undergraduate Mathematics major courses.

Requirements for the Minor in Mathematics (MTH)
The minor in Mathematics is open to all students. Students with majors in the sciences, engineering, business, and the social sciences are particularly encouraged to pursue the minor. A student wishing to receive a minor in Mathematics must meet the following course requirements (minimum of 27 credit hours):

1. Required Courses (20 credit hours)
   Either:
   MAC 2311 Calculus I or MAC 2281 Engineering Calculus I
   MAC 2312 Calculus II or MAC 2282 Engineering Calculus II
   MAC 2313 Calculus III or MAC 2283 Engineering Calculus III
   MGF 3301 Bridge to Abstract Mathematics
   MAS 3105 Linear Algebra
   MAS 4156 Vector Calculus

2. Elective Courses (Minimum 6 credit hours)
   Complete any two (2) Mathematics courses that are required or elective course for the major in Mathematics.

Special Notes:
A student wishing to receive a minor in mathematics is required to take a minimum of eight (8) credit hours of required courses in the Department of Mathematics and Statistics at USF-Tampa.
• STATISTICS (STC) (CIP = 27.0501)
  TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Requirements for the Major in Statistics (B.A.)

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

Students wishing to transfer to USF from a Florida College System institution should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

A student who transfers without an A.A. degree and has fewer than 60 semester hours of acceptable credit must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

COP XXXX A Scientific Programming Course designed for Computer Science Majors
MAC X311 Calculus I
MAC X312 Calculus II – Calculus with Analytic Geometry II
MAC X313 Calculus III
STA 2XXX Statistics
BSC XXXX / XXXXL
CHM XXXX / XXXXL
PHY XXXX / XXXXL
GLY XXXX / XXXXL

The courses taken to satisfy the requirements below will constitute the major program referred to in the General Graduation Requirements of the College of Arts and Sciences.

Majors are encouraged to consult the department’s undergraduate advisor before every semester. The undergraduate advisor will recommend electives that are appropriate for the student’s interests and goals.

Statistics Requirements (Minimum 47 credit hours)

Core Requirement. Majors must complete the following five courses (Min. 19 credit hours):

MAC 2311 Calculus I or MAC 2281 Engineering Calculus I
MAC 2312 Calculus II or MAC 2282 Engineering Calculus II
MAC 2313 Calculus III or MAC 2283 Engineering Calculus III
MGF 3301 Bridge to Abstract Mathematics
STA 4102 Computational Methods for Applied Statistics

Plus completion of one of the four lab-based Science courses below

BSC XXXX / XXXXL
CHM XXXX / XXXXL
PHY XXXX / XXXXL
GLY XXXX / XXXXL

Required Courses (Minimum 12 credit hours):

STA 2023 Introductory Statistics I
STA 3024 Introductory Statistics II
STA 4321 Essentials of Statistics
STA 4442 Introduction to Probability I

Elective Requirement: Majors must complete four courses from the following electives (Minimum 15 credit hours):

STA 4222 Sample Survey Design
STA 4502 Nonparametric Statistical Methods
STA 4504 Categorical Data Analysis
STA 4702 Multivariate Statistical Methods
STA 4852 Applied Time Series
MAP 2302 Differential Equations
MAS 3105 Linear Algebra

Special Notes:
One or two courses from another department which are of high statistical content may be taken as electives, with the approval of the Chair of the department.

STA 4930 Selected Topics in Statistics may be taken as electives, with the prior approval of the Chair of the
Mathematics and Statistics Faculty

• PHILOSOPHY (PHI) (CIP = 38.0101)
TOTAL PROGRAM HOURS = 120 CREDIT HOURS
Prerequisites (Recommended Prerequisites) for Students Transferring from a Florida College System Institution
Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Students are encouraged to complete the following courses if available during the program of study at the community college and when feasible in General Education/Gordon Rule courses. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.
Mathematics (any courses)
Foreign Languages (Beginning and Intermediate German, French, or Latin) (1120-1121 level and 2200-2201 level)
Classics (CLT, CLA for example)

Requirements for the Major in Philosophy (B.A.)
Majors in philosophy must complete at least 36 credit hours comprised of the following:

a. PHH 3062 History of Western Philosophy: Ancient Philosophy
b. Two of the following courses
   PHH 3280 Medieval and Renaissance Philosophy
   PHH 3420 Early Modern Philosophy
   PHH 3442 Late Modern Philosophy
c. One of the following courses:
   PHI 3100 Formal Logic (Strongly encouraged)
   PHI 2101 Introduction to Formal Logic
d. One of the following courses
   PHH 4670 Contemporary Ethical Theory
   PHP 4340 Contemporary Political Philosophy
e. Two of the following courses
   PHI 4300 Theory of Knowledge
   PHI 3404 Philosophy of Science
   PHI 4320 Philosophy of Mind
f. Twelve credit hours of Philosophy electives, of which six must be at the 4000- or 5000-level
g. PHI 4938 Philosophy Capstone Seminar

Two additional stipulations apply:
1. No grade below C- in any required philosophy course or philosophy elective may count toward the major;
2. No more than six hours of Philosophy electives and three hours of required Philosophy coursework taken at institutions other than USF may count toward the major.

Requirements for the Minor in Philosophy (PHI)
A minor in philosophy consists of the completion of at least 18 credit hours, which includes the following courses or an approved substitute for one only:

a. PHH 3062 History of Western Philosophy: Ancient Philosophy
b. One of the following courses:
   PHH 3280 Medieval and Renaissance Philosophy
   PHH 3420 Early Modern Philosophy
   PHH 3442 Late Modern Philosophy
c. PHI 4670 Contemporary Ethical Theory or PHP 3786 Existentialism or PHI 4320 Philosophy of Mind

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Honors Program

The Honors Program in Philosophy allows superior students to pursue philosophical studies at a more advanced level than is customary in undergraduate Philosophy programs. Students in the Honors Program will be required to do independent research and to write and defend an undergraduate thesis.

Admission Criteria:
1. Students must already have declared a major in Philosophy.
2. Students must complete nine (9) hours in Philosophy at the 3000-level or higher (PHI 2101 may count toward the nine hours).
3. Students must have an overall grade point average of 3.0, and their grade point average in Philosophy coursework must be at least a 3.50.
4. Students who wish to be considered for the Honors Program must request to be nominated by a member of the faculty. Once nominated by a faculty member, a majority of the faculty who have taught the student must approve the student's admission to the Honors Program.

Program Requirements:
In addition to completing the requirements for the Major in Philosophy, students must meet the following requirements:
1. Students cannot receive a grade lower than a “B” in any Philosophy course, and their GPA in Philosophy coursework must be at least 3.50 to remain in, or be graduated from, the Honors Program.
2. PHH 4440 Continental Philosophy or PHP 4784 Analytical Philosophy or PHP 3786 Existentialism or PHH 4700 American Philosophy
3. Students must write a senior thesis and undergo an oral examination on the thesis before a committee of two Philosophy faculty members. Students will register for three hours in directed study in Philosophy (PHI 4905) for work on their thesis. Students who are in the Honors College may use the same project to count for both Philosophy Honors and an Honors College thesis. In such cases, the student shall not register for directed study in Philosophy (PHI 4905) as part of completing the thesis.
4. Students must complete 36 credit hours in Philosophy.

Philosophy Faculty

• PHYSICS (PHY/PHS) (CIP = 40.0801) (Track 1 of 2)
TOTAL PROGRAM HOURS = 120 CREDIT HOURS

The Department of Physics offers undergraduate programs leading to a Bachelor of Arts (B.A.) or a Bachelor of Science (B.S.) degree, as well as Minors in Astronomy, Physics and Biomedical Physics. The B.S. program is intended for students planning to pursue graduate studies in physics or a closely related field. The B.A. program is designed for students who are not currently planning to attend physics graduate school and/or who want to pursue parallel studies in other fields such as mathematics, biology, chemistry, computer science, engineering, business, pre-med, pre-law, and teacher education.

At the graduate level, the Department of Physics offers three Master’s degree programs (Master of Science in Physics, Master of Science in Applied Physics and Dual-Master Degrees in Physics and Engineering Science) and a Ph.D. degree program in Applied Physics.

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution
Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies.
Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

CHM X045/X045L General Chemistry I (with lab) or CHM X040 & CHM X041 or CHM X045C
CHM X046/X046L General Chemistry II (with lab) or CHM X046C
MAC X311 Calculus I or MAC X281
MAC X312 Calculus II or MAC X282
MAC X313 Calculus III or MAC X283
PHY X048/X048L General Physics I or PHY X048C
PHY X049/X049L General Physics II or PHY X049C

Requirements for the Major in Physics (B.A.=PHY and B.S.=PHS)

Physics Courses

For the B.A. in PHYSICS (PHY) (33 credit hours)
PHY 2048 General Physics I
PHY 2048L General Physics I Lab
PHY 2049 General Physics II
PHY 2049L General Physics II Lab
PHY 3101 Modern Physics
PHZ 3113 Mathematical Methods in Physics
PHY 3822L Intermediate Lab
PHY 3221 Mechanics
PHY 3323 Electricity and Magnetism I
PHY 4823L Advanced Laboratory
PHY 4930 Undergraduate Seminar
PHY 4604 Introduction to Quantum Mechanics

Plus two (2) credit hours of Physics electives subject to approval of undergraduate advisor.

For the B.S. in PHYSICS (47 credit hours)
PHY 2048 General Physics I
PHY 2048L General Physics I Lab
PHY 2049 General Physics II
PHY 2049L General Physics II Lab
PHY 3101 Modern Physics
PHZ 3113 Mathematical Methods in Physics
PHY 3822L Intermediate Lab
PHY 3220 Mechanics
PHY 3323 Electricity and Magnetism I
PHY 4823L Advanced Laboratory
PHY 4910 Undergraduate Research (2 hours recommended)
PHY 4604 Introduction to Quantum Mechanics
PHY 4930 Undergraduate Seminar
PHY 4324 Electricity and Magnetism II
PHY 4523 Statistical Physics
PHY 4605 Quantum Mechanics II

Plus 5 credit hours of Physics electives subject to approval of undergraduate advisor.

Required Supporting Courses in Natural Sciences and Mathematics (for both B.A. and B.S.)
CHM 2045 General Chemistry I
CHM 2045L General Chemistry I Lab
CHM 2046 General Chemistry II
CHM 2046L General Chemistry II Lab
MAC 2311 Calculus I or 2281 Engineering Calculus I
MAC 2312 Calculus II or 2282 Engineering Calculus II
MAC 2313 Calculus III or 2283 Engineering Calculus III

Residency Requirement
A minimum of 20 credit hours of physics courses in residency.

Minimum Grade Requirement
A minimum grade of "C" is required for all physics classes in the curriculum.

Teacher Education Programs

For information concerning the degree programs for secondary school teachers, see College of Education, Department of Secondary Education.

Requirements for the Minor in Astronomy (AST)

The Astronomy Minor provides an in-depth overview of Astronomy from a mainly conceptual perspective. Any student wanting to learn more about the universe can earn the Minor in Astronomy regardless of their degree, including physics students.

A minor in Astronomy consists of 14 credit hours which includes:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 2003</td>
<td>Astronomy of the Solar System</td>
</tr>
<tr>
<td>AST 2004</td>
<td>Stellar and Galactic Astronomy</td>
</tr>
<tr>
<td>AST 3033</td>
<td>Contemporary Thinking in Astronomy</td>
</tr>
<tr>
<td>AST 3044</td>
<td>Archaeoastronomy</td>
</tr>
</tbody>
</table>

A "C-" is the minimum acceptable grade for any course in the minor. A minimum "C" (2.0) average in the 14 credit hours is required for obtaining this minor.

None of the courses for the Astronomy Minor count towards a Physics B.A. or B.S., and consequently Physics students may earn a Minor in Astronomy along with their Physics B.A. or B.S. degree.

Requirements for the Minor in Physics (PHY)

A minor in Physics consists of 17 credit hours which include:

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 2048 or 2053</td>
<td>General Physics I</td>
</tr>
<tr>
<td>PHY 2048L or 2053L</td>
<td>General Physics I Lab</td>
</tr>
<tr>
<td>PHY 2049 or 2054</td>
<td>General Physics II</td>
</tr>
<tr>
<td>PHY 2049L or 2054L</td>
<td>General Physics II Lab</td>
</tr>
<tr>
<td>PHY 3101</td>
<td>Modern Physics</td>
</tr>
</tbody>
</table>

**Required Supporting Courses**

Plus 6 hours of upper level physics electives subject to approval of undergraduate advisor.

A "C-" is the minimum acceptable grade for any course in the minor. A minimum "C" (2.0) average in the 17 credit hours is required for obtaining this minor.

Requirements for the Minor in Biomedical Physics (BPH)

This minor combines fundamental knowledge of physics acquired through the General Physics lectures and laboratories to applications that cover a wide spectrum of topics of interest to students pursuing a future clinical or research career in the areas of biology, medicine, biophysics, and other related areas.

A minor in Biomedical Physics consists of 16 credit hours which includes:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 2048 or 2053</td>
<td>General Physics I</td>
</tr>
<tr>
<td>PHY 2048L or 2053L</td>
<td>General Physics I Lab</td>
</tr>
<tr>
<td>PHY 2049 or 2054</td>
<td>General Physics II</td>
</tr>
<tr>
<td>PHY 2049L or 2054L</td>
<td>General Physics II Lab</td>
</tr>
<tr>
<td>PHZ 4702</td>
<td>Applications of Physics to Biology and Medicine I</td>
</tr>
<tr>
<td>PHZ 4703</td>
<td>Applications of Physics to Biology and Medicine II</td>
</tr>
</tbody>
</table>

A "C-" is the minimum acceptable grade for any course in the minor. A minimum "C" (2.0) average in the 16 credit hours is required for obtaining this minor.

Physics Faculty


• PSYCHOLOGY (PSY) (CIP = 42.0101)

**TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

Psychology is the scientific study of behavior and mental processes. Because of this focus, psychology is relevant to many other areas of study both inside and outside of the social and behavioral sciences. The undergraduate program
in Psychology offers the student a well-rounded liberal arts education. In addition, the program provides excellent training for qualified students who wish to pursue graduate work in such disciplines as Clinical, Cognitive and Neural Sciences or Industrial Psychology, Education, Gerontology, Counseling, Management, Medicine, Law, and other human service programs. The undergraduate major emphasizes the breadth of psychology while allowing the student some electives to pursue in depth a particular aspect of the field. Interested undergraduate majors may apply for admission to the Honors Program. For more information, please visit the Psychology Department’s website at http://psychology.usf.edu.

Requirements for the Major in Psychology (B.A.)

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

Psychology is not a limited access program, but transfer students are encouraged to complete the following state-approved prerequisite courses at the lower level prior to entering the university. If these courses are not taken prior to transferring to USF, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

- **BSC X0XX General Biology course** (or BSC X20X or ZOO X010)
- **PSY X012 Introduction to Psychological Science**
- **PSY XXXX Any other lower-level Psychology course within the Psychology inventory (i.e., CLP, DEP, EAB, EXP, INP, PCE, PPE, and PSB prefixes).**
- **STA XXXX Any level Statistics course**

Once declared a Psychology major, continuation in the major requires successful completion of (with at least a grade of C (not C-) or better):

- **PSY 2012 Introduction to Psychological Science**
- **PSY 3204 Psychological Statistics** (or another approved Statistics course)
- **PSY 3213 Research Methods in Psychology**

PSY 3213 is the prerequisite to all of the upper-level Psychology coursework with the exception of PSB 3444 Drugs and Behavior and GEY 4612 Psychology of Aging.

Majors must complete at least 34 credit hours of specified Psychology major coursework. A minimum grade of “C-” or better must be attained in each course in the major, except for PSY 2012, PSY 3204 (or other qualifying statistics course) and PSY 3213, where a C or better is required. Although a C- is allowable for individual courses, a major GPA of 2.0 minimum is required for graduation.

**Requirements for Psychology Majors**

1. **Introductory Psychology Requirements (10 credit hours):**
   - **PSY 2012** Introduction to Psychological Science
   - **PSY 3204** Psychological Statistics or any approved Statistics course
   - **PSY 3213** Research Methods in Psychology

After the introductory psychology requirements, students may choose among courses within the following categories to satisfy the remaining requirements.

2. **One Methods Course: (3 credit hours):**
   - **CLP 4433** Tests and Measurements
   - **PSY 4205** Experimental Design and Analysis

3. **Two Courses in Cognitive and Neural Sciences (6 credit hours):**
   - **EXP 4204C** Perception
   - **EXP 4404** Psychology of Learning
   - **PSB 4004C** Physiological Psychology
   - **EXP 4304** Motivation
   - **EXP 4680C** Cognitive Psychology

4. **Two Courses in Social/Applied Psychology (6 credit hours):**
   - **CLP 4143** Abnormal Psychology
   - **INP 4004** Industrial Psychology
   - **SOP 4004** Social Psychology
   - **DEP 4053** Developmental Psychology
   - **PPE 4003** Personality

5. **Psychology Elective Courses (9-12 credit hours):**
   - If a student takes PSY 3204 to meet the statistics requirement, the student must take three Psychology elective courses (9 credit hours). However, if a student took a different statistics course, the student must take four Psychology elective courses (12 credit hours).
   - The Psychology elective courses may be chosen from the courses listed in the above categories beyond the required
number for each group and/or any of the following:
PSB 3444 Drugs and Behavior**
GEY 4612 Psychology of Aging**
CBH 4004 Comparative Psychology
CLP 4414 Behavior Modification
SOP 4514 Holocaust Soc. Prejudice**
SOP 4330 HIV/AIDS
PSY 4913 Directed Study (Instructor’s permission is required to take this course)
PSY 4931 Select Topics (Generally this course require the instructor’s permission.)
**No prerequisite required.

Notes:
1. No more than a total of three (3) hours of PSY 4913 Directed Study or PSY 4970 Honors Thesis may count toward the major.
2. PSY 4931 Select Topics, may be repeated three (3) times for credit under three different topics.
3. DEP 3103 Child Psychology, SOP 3742 Psychology of Women, SYP 3000 Social Psychology and PSY 4932 Honors Seminar do not count toward the major requirements.

Minimum Requirements for the Majors in Psychology

Department of Psychology students are expected to complete their major coursework in a timely fashion. Students who receive a total of three (3) D and/or F grades in Psychology major coursework will no longer be eligible to continue in the Psychology major and will be required to change their major to a field outside of the Department of Psychology. Grade forgiveness will not exclude a D or F grade from counting for this rule.

Students who began as Psychology majors prior to Fall 2012 will be provided a phase-in period. Specifically, students who accumulated D and/or F grades in Psychology coursework at USF prior to Fall 2012 will be allowed to count any and all prior non-pass grades as one (1) D/F grade. Beginning Fall 2012, these students can still receive two (2) more D and/or F grades at USF before being required to choose a new major.

Once Psychology major students have received three (3) D and/or F grades in Psychology major coursework, they will be removed from all Department of Psychology courses for which they are currently registered, removed from the Psychology major and placed into a non-major code, and emailed the notice of changes to their @mail.usf.edu account. Students will then need to select a new major, declare the new major with the appropriate college, and register for courses which apply to their new major.

The D/F Rule application is final and effective from the beginning of Fall 2012. To be considered for an appeal, a student must meet at least one of the following criteria:
1. Can (and must) complete all degree or minor requirements within one semester, with no more than 10 hours of Psychology area requirements.
2. No longer have 3 D/F grades because the Academic Regulations Committee approved a late withdrawal/drop for one or more of the Psychology courses.
3. No longer have 3 D/F grades because of an instructor change of grade in one or more of the Psychology area courses.

To appeal, the student must send an email to psychad@usf.edu; in the Subject line indicate D/F Appeal and in the body include name, student’s U# and a complete explanation of the reason for the appeal. Appeals will be adjudicated by the Psychology Coordinator of Advising and students notified of results by email.

Coordinator of Advising decisions may be appealed in writing to the Psychology department’s Undergraduate Program Committee.

Requirements for the Minor in Psychology (PSY)

A minor in Psychology consists of a minimum of 18 credit hours. The purpose of the minor is to help students majoring in other disciplines to obtain an appropriate psychology background that will complement their work in their major.

Required courses (6 credit hours):
- PSY 2012 Introduction to Psychological Science
- PSY 3212 Research Methods or any Statistics course

Elective courses (12 credit hours):

Four upper-level psychology courses, except PSY 4913 and DEP 3103.

Students minoring in Psychology must obtain a “C” or better in any college level statistics course or PSY 3212. A GPA of 2.0 or better in the minor is required for certification and students must complete at least eight credit hours toward the minor in residency at USF.
Psychology Honors Program

The purpose of the Honors Program is to provide a select group of qualified undergraduate Psychology majors an opportunity to undertake an intensive individualized research experience. The culmination of the Honors Program is the completion and defense of an honors thesis. Application for the program will take place during the first semester of the student's junior year or, typically, prior to completion of 90 semester credits. Admission to the program is competitive and based on the student's overall academic record, performance in psychology courses, a letter of recommendation from a member of the Department of Psychology's faculty, agreement of a faculty member to serve as the thesis advisor, and strong performance in the Discovering Research in Psychology course.

Successful completion of the program requires:
- A GPA of 3.50 in all major coursework,
- An overall GPA of 3.25 at USF, and,
- Completion of 43 hours in Psychology including PSY 4932 Honors Seminar and PSY 4970 Honors Thesis.

Please see the Department of Psychology’s website (http://psychology.usf.edu) for details and the application form.

Psychology Faculty


School of Public Affairs

The faculty in the School of Public Affairs is dedicated to providing a vibrant center of learning for students seeking knowledge, values, and skills in public affairs. The education and technical skills offered to students are intended to build strong and sustained professional, managerial, and community-serving abilities as well as to prepare them for leadership roles in an increasingly global society. The faculty is also committed to research and development of applied and relevant knowledge of issues of public policy and public management at all levels of governance: local, state, and national. Quality education and scholarship provided by SPA will help students to achieve their professional goals and aspirations as well as serve the strategic mission and objectives of the University of South Florida.

Requirements for the Minor in Public Administration (PAN)

The minor in Public Administration consists of 15 credit hours.

Required Public Administration Courses (12 credit hours):
- PAD 3003 Introduction to Public Administration
- PAD 4204 Public Financial Administration
- PAD 4415 Personnel and Supervision for Today’s Organizations
- PAD 4712 Managing Information Resources in the Public Sector

Public Administration Electives (3 credit hours):
- PAD 4930 Selected Topics in Public Administration and Public Policy
- PAD 5605 Administrative Law and Regulation
- PAD 5807 Urban and Local Government Administration
- PAD 5159 Urban Policy Analysis
- PAD 5044 Environment of Public Administration
- PAD 5853 Comparative Public Administration
- PAD 5035 Issues in Public Administration and Public Policy
- PUP 4002 Public Policy

School of Public Affairs Faculty

School Director: J.L. Daly; Professors: P. Cromwell, K. Lersch, A. Njoh, J.E. Jreisat, J.E. Pynes; Associate Professors: J.L. Daly; E. Strom; Assistant Professors: S. Aikins, T. Cooper, E. Linkous, S. Neely.
• RELIGIOUS STUDIES (REL) (CIP = 38.0201)
  TOTAL PROGRAM HOURS = 120 CREDIT HOURS

In Religious Studies, students are exposed to a cross-cultural and multi-disciplinary study of the way in which both individuals and civilizations are deeply influenced by human religious experience. The goal is to enable the educated person to understand better the various ways in which religious values and institutions shape human behavior through a comparative study of religions and cultures. Such an education is invaluable for careers as diverse as journalism, law, medicine, business, as well as careers more directly related to the practice of religion. Majors in Religious Studies will also find courses designed to give them the methodological, theoretical and linguistic skills needed to go on to advanced graduate study in the field.

Requirements for the Major in Religious Studies (B.A.)

Recommended Prerequisites (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

Students must choose a total of 36 credit hours from Religious Studies courses. Transfer students may not apply more than 12 hours taken elsewhere toward the major at the University of South Florida. Only letter grades of at least C- or better will be counted toward the minimum of 24 credit hours taken at the University of South Florida for transfer students or 36 (for non-transfer students) credit hours necessary to complete the 36 credit hours required for the major.

Students declaring Religious Studies as a second major need to complete 30 credit hours. To do so they must make a written request to the Undergraduate Director at the time they declare the second major.

All majors must take:
1. One of the following courses (only one will count toward Religious Studies requirements):
   REL 2300 Introduction to World Religions
   REL 2306 Contemporary World Religions
   REL 3308 World Religions
2. REL 3040 Introduction to Religious Studies
3. REL 3043 Introduction to Major Religious Texts
4. REL 4931 Seminar in Religion
   (Note: eligibility for REL 4931 is contingent on successful completion of REL 3040 and REL 3043.)
5. Completion 23-24 additional credit hours that satisfy the following requirements:

   Take at least 18 credit hours at 3000- and/or 4000-level course, of which a minimum of 12 must be at the 4000-level.
   Take at least one course from each of the areas:
   Western Tradition (primarily Judaism, Christianity, and Islam):
   REL 2210 Hebrew Bible/Old Testament
   REL 2240 Introduction to the New Testament
   REL 3120 Religion in America
   REL 3131 New Religions in America
   REL 3132 Witchcraft and Paganism in America
   REL 3280 Biblical Archaeology
   REL 3303 Comparative Religion: Judaism and Islam
   REL 3363 Introduction to Islam
   REL 3367 Islam in the Modern World
   REL 3500 History of Christianity
   REL 3561 Roman Catholicism
   REL 3602 Classics of Judaism
   REL 3607 Introduction to Judaism
   REL 3611 History of Judaism
   REL 3613 Modern Judaism
   REL 4133 Mormonism in America
   REL 4171 Contemporary Christian Ethics
   REL 4215 Ancient Israel and the Development of the Hebrew Bible
   REL 4216 Who Wrote the Bible
### Requirements for the Minor in Religious Studies (REL)

Students choose a total of 18 credit hours from Religious Studies courses. Transfer students may not apply more than 6 credit hours taken elsewhere toward the minor at USF. Only letter grades will be counted for coursework taken for the minor. Requests for transfer of credit must be made to the Undergraduate Director in writing when declaring a minor.

All minors must take:
- REL 3040 Introduction to Religious Studies
- REL 3043 Introduction to Major Religious Texts

**Religious Studies Electives:**

An additional 12 credit hours chosen from Religious Studies courses. Students are expected to study at least two different religious traditions.

It is the prerogative of the Department of Religious Studies to determine whether courses taken at other universities may be applied toward the minor at USF. This will be decided as soon as the student declares a minor in the Department of Religious Studies at USF.

### Requirements for the Honors Program in Religious Studies

The purpose of the Honors Program in Religious Studies is to provide outstanding undergraduates with advanced and individualized learning opportunities in Religious Studies and their areas of special interest in this field. In addition, it will serve to facilitate more direct contact between students in the program and their faculty mentors. In this program, students who have demonstrated significant academic achievement will inquire into issues and questions in the study of religion at an advanced level under the guidance of faculty members with demonstrated expertise in their fields of
study and a strong commitment to teaching. Upon completion of the program, the student’s transcript will state that the
student graduated with Honors in Religious Studies. Application to the program should be submitted during a student’s
junior year. The Honors Committee will review all applicants before selecting no more than 10 individuals for the Honors
Programs. Inductees will be notified of their admission to the Honors Program in the Spring term. Honors Program
students are exempt from Sr. Seminar (REL 4931) contingent on their completion of the Honors Program. If students
do not complete the Honors Program, they are required to complete Sr. Seminar in order to satisfy degree requirements.

Admissions Criteria:
1. Religious Studies majors who have completed at least 70 (and preferably less than 90) hours of course work with
   an overall GPA of at least 3.25.
2. Completion of REL 3040 Introduction to Religious Studies and at least 12 additional hours of course work in the
department of Religious Studies with a GPA of at least 3.5 in the major.
3. A letter of recommendation from a Religious Studies faculty member who is familiar with the applicant’s work.
4. A statement from a Religious Studies faculty member expressing her/his willingness to serve as chair of the
   applicant’s thesis committee.
5. A short essay (2-3) pages by the applicant that includes the following:
   a. a statement of the applicant’s qualifications for the program,
   b. the applicant’s area(s) of special interest,
   c. an explanation of how the program will benefit from the applicant’s inclusion in the program, and
   d. the applicant’s post-graduate plans.

Requirements for Completion of the Departmental Honors:
1. Completion of the requirements for a Religious Studies major with a GPA of 3.5 or higher in the major.
2. Completion of a USF degree with an overall GPA of 3.25 or higher.
3. Completion of five (5) credit hours of “Honors Seminar.” Honors students will take the seminar for three credit hours
   in the fall and two credit hours in the spring.
4. Completion of five (5) credit hours of Thesis/Directed Research for two credit hours in the fall and three credit hours
   in the spring. Honors students must also complete and present their Honors Thesis in the second semester of their
   senior year. Students who do not complete this requirement may, upon the recommendation of their major instructor
   and the Department Honors Program Coordinator, be allowed to continue in special circumstances.

Required Courses for the Honors Program:
- REL 4911 Undergraduate Research (Honors Thesis) (five credit hours)
- REL 4937 Selected Topics (Honors Seminar)
- REL 4938 Selected Topics (Honors Seminar)

Religious Studies Faculty
Chairperson: T. Williams; Associate Chair: D. deChant; Distinguished University Professor: J.F. Strange; Professors:
D. Jorgensen, M.G. Mitchell, T. Williams; Associate Professor: W. Zhang; Emeritus Professors: D.J. Fasching, S.
Garcia, S. Mandell; Assistant Professors: M. DeJonge, C. Fisher; Instructors: D. deChant, P. Schneider, W.
Schanbacher; Other Faculty J. Cavendish, M. Decker.

• SOCIOLOGY (SOC) (CIP = 45.1101) (Track 2 of 2)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Sociology is the study of social life and the social causes and consequences of human behavior. Sociologists
investigate the structure of groups, organizations, and societies. Because all human behavior is social, the subject
matter of sociology ranges from intimate families to hostile mobs; from crime to religion; from the divisions of race,
gender, and social class to the shared beliefs of a common culture; from the sociology of work to the sociology of
emotions.

The Sociology major is designed to provide students with a broad liberal arts education and a greater understanding
and insight into the social systems and processes that bear upon everyday lives. Opportunities for students with
Bachelor’s degrees in Sociology are quite varied. Some go on to work for human service agencies; others work in
personnel, criminal justice, and urban planning; others enter graduate programs in sociology, education, law, medicine,
or social work. Toward these ends, all students are encouraged to become skilled in the use of computers and libraries.

Requirements for the Major in Sociology (B.A.)
Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some
courses required for the major may also meet General Education Requirements thereby transferring maximum hours
to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable
credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

SYA XXXX or SYD XXX or SYG XXX, SYO XXX or SYP XXX 6 credit hours
A grade of “C-” is the minimum acceptable grade.

Specific Coursework in the Sociology Major
The major consists of a minimum of 36 credit hours of Sociology coursework plus STA 2122 Social Science Statistics or its equivalent. All university-wide regulations regarding transfer credits and credits needed for graduation apply. At least 27 of the 36 hours of coursework in Sociology must be USF-Tampa credits. Only courses in which a grade of “C-” or better is attained will count toward the minimum hours.

The minimum of 36 credit hours in Sociology must include the following four core courses (12 hours):
- SYA 3110 Classical Theory
- SYA 3300 Research Methods (Prerequisite: STA 2122 Social Science Statistics or its equivalent)
- SYA 4935 Senior Seminar

The remaining 24 hours of Sociology coursework may be comprised of any upper-level courses offered by the Sociology department. In addition, SYG 2010 Contemporary Social Problems may count toward these 24 hours of electives. No more than three hours each of SYA 4910 Individual Research and SYA 4949, Sociological Internship, may count toward the 24 hours of electives.

Areas of Concentration
Sociology majors may choose to complete an optional area of concentration in either “Inequality and Social Justice” or “Identity and Community” by completing one required course and three elective courses (all with a grade of C- or better) listed within the area selected. In some cases, it may be possible to complete both areas of concentration, however, students may count a particular course as an elective for only one area of concentration.

Inequality and Social Justice (ISJ)
- **Required Course:** (3 credit hours)
  SYA 4930 Topics in Sociology
- **Electives:** (9 credit hours)
  SYA 4930 Topics in Sociology
  SYD 3700 Racial and Ethnic Relations
  SYD 4512 Sustainable Consumption
  SYD 4800 Gender and Society
  SYO 3530 Social Inequality in a Global Society
  SYP 3060 Sociology of Sexualities
  SYO 4204 Religion & Immigration
  SYO 4400 Medical Sociology
  SYO 4430 Disability and Society
  SYO 4572 Hidden Structures of Social Life
  SYP 3562 Family Violence
  SYP 4513 Elite Deviance
  SYP 4238 Immigrants to America
  SYP 3004 Constructing Social Problems
  SYO 3120 Sociology of Families
  SYA 4121 Queer Theory
  SYG 3011 Social Problems Through Film
  SYP 4651 Gender, Sport and the Body
  SYO 4250 Sociology of Education
  SYA 4304 Sociological Research Experience
  SYA 4910 Independent Research
  SYA 4949 Sociological Internship

Identity and Community (IDC)
- **Required Course:** (3 credit hours)
  SYP 4111 Identity and Community
- **Electives:** (9 credit hours)
  SYP 4763 Childhood and Youth
SYA 3310 Qualitative Inquiry
SYO 3120 Sociology of Families
SYA 4930 Topics in Sociology
SYP 3562 Family Violence
SYD 3700 Racial and Ethnic Relations
SYP 4012 Emotions in Society
SYA 4121 Queer Theory
SYD 4238 Immigrants to America
SYO 3200 Sociology of Religion
SYO 4204 Religion & Immigration
SYP 4650 Sport in Society
SYP 4675 Animals & Society
SYD 4410 Urban Sociology
SYD 4411 Urban Life
SYP 4420 Consumer Culture
SYO 3460 Sociology of the Media
SYO 4573 Social Networks
SYG 3235 Latina/o Lives
SYA 4304 Sociological Research Experience
SYA 4910 Independent Research
SYA 4949 Sociological Internship

Students are encouraged to make an appointment to talk with the Sociology Department Undergraduate Advisor when they have questions about major requirements or about which electives offered each semester would best meet their educational and career goals.

Requirements for the Minor in Sociology (SOC)

A minor in Sociology consists of a minimum of 18 credit hours in Sociology, at least 12 of which must be USF-Tampa credits. Minors must take:
SYG 2000 Introduction to Sociology
SYA 3110 Classical Theory

No more than three hours of SYA 4910 “Individual Research” and no more than three hours of SYA 4949 Sociological Internship may count toward the 18 hour minimum.

Only courses in which a grade of “C-” or better is attained will count toward the minimum hours.

While students do not declare a Sociology minor until application for graduation, they are encouraged to make an appointment with the Sociology department undergraduate advisor if they wish to discuss which Sociology electives offered each semester would best meet their educational and career goals.

Honors Program in Sociology

Through the Undergraduate Honors Program, the Department of Sociology provides its outstanding students with opportunities to work closely with faculty and graduate students with shared interests in specific areas of social experience. Students accepted into the program select a faculty mentor with expertise in the area of study of interest to the student. Under the supervision of this mentor, honors students conduct sociological research in their area of interest culminating in the preparation of an honors thesis. Students apply to the Honors Program in the Spring Semester during their junior year for admission for the following fall. Admission to the program is competitive. Meeting minimum requirements does not guarantee admission.

Minimum Eligibility Requirements:
1. Junior standing.
2. 12 semester hours of Sociology course work with a major GPA of 3.0 by the end of the semester in which application is made.
3. Overall USF GPA of 3.0 or higher.
4. Selection and approval of faculty mentor.

Completion Requirements:
1. Completion of all requirements for the major.
2. Completion of at least one upper-level elective relevant to the thesis (course must be approved by faculty mentor).
3. USF overall and major GPA of at least 3.0.
4. Successful completion of the Honors Seminar.

Applications for the Undergraduate Honors Program in Sociology are available in the Sociology department (CPR 209).
Sociology Faculty

• WOMEN’S AND GENDER STUDIES (WGS) (CIP = 05.0207)
  TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Women’s and Gender Studies at the University of South Florida is a global, interdisciplinary, and activist field of study that features and critically examines women’s experiences and issues across historical, cultural, racial, class, and other differences. The WGS major is designed to provide students with 1) skills in critical thinking and independent inquiry as part of a broad liberal arts education; 2) knowledge of the institutions, discourses, and processes that bear upon gender's meanings and enactments locally and globally; and 3) the tools to engage, critique, celebrate, and transform everyday lives of women and men.

The department offers a major and a minor in Women’s and Gender Studies. Students are encouraged to pursue Women's and Gender Studies as a second major, complementing many undergraduate majors across the College of Arts and Sciences as well as majors in the Colleges of Education, Business, Public Health, and Community and Behavioral Sciences.

Requirements for the Major in Women’s and Gender Studies
Prerequisites (Recommended Prerequisites) for Students Transferring from a Florida College System Institution
Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

No State Mandated Common Prerequisites are required for this degree program.

Upper-level Coursework for Women’s and Gender Studies Majors
Students must choose a total of 36 credit hours from Women's and Gender Studies courses. Transfer students may not apply more than 12 hours taken elsewhere toward the major at the University of South Florida. Only letter grades of at least C- will be counted credit hours required for the major.

Students taking Women’s and Gender Studies as a second major need to complete 30 credit hours. To do so, they must make a written request to the Undergraduate Director at the time they declare Women’s and Gender Studies as a second major. Courses taken in the first major may not count toward the 30 hours in Women’s and Gender Studies as a second major.

I. Required Core Courses (15 hours)
   WST 3015 Introduction to Women’s Studies
   WST 3311 Issues in Feminism
   WST 4002 Feminist Research Methods
   WST 4522 Classics in Feminist Theory or WST 4561 Contemporary Feminist Theory
   WST 4935 Capstone/Senior Project

II. The remaining 21 hours of Women’s & Gender Studies coursework may be comprised of any courses offered by the Women’s & Gender Studies department, including approved cross-listed courses. No more than twelve hours of WST 4930 may count toward the 36 hour minimum.

   Students electing to major, double major or minor in Women’s and Gender Studies should consult the undergraduate advisor for timely scheduling of classes.

Requirements for the Minor in Women’s and Gender Studies (WGS)

The minor in Women’s and Gender Studies is available to students pursuing any other major at USF. The minor in Women's and Gender Studies requires a minimum of 18 hours of departmental coursework, including:

   WST 3015 Introduction to Women’s Studies
   One other WST core course
   12 hours of elective hours
The other 12 hours may be selected from among departmental offerings and must include a minimum of six (6) hours at the 4000-level or higher.

A grade of “C-” is required for a departmental course to count toward a Women’s and Gender Studies minor. Courses may not be taken S/U, where a grade option exists.

Students may petition the undergraduate advisor to focus their minor on a specific area within Women’s and Gender Studies, such as sexualities, women’s health or social justice.

**Women’s and Gender Studies Faculty**
Chairperson: E. Bell; Professor: D. Price-Herndl; Associate Professors: K. Golombisky, M. Hughes Miller; Assistant Professor: D. Rubin; Professor Emeriti: C. DiPalma, L.L. McAlister, M. Myerson, J. Snook; Instructors: J. Turner, M. Wendland.

**Department of World Languages**
The Department of World Languages offers students several undergraduate degrees. Although a baccalaureate degree is not offered in Linguistics, a minor is available to students. Comprehensive information about these programs is listed below.

**Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution**

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

To complete a major in Classics, students should demonstrate proficiency at the intermediate level within the target language. This may be accomplished by completing 6-12 hours within the language or by demonstrated competency at the intermediate level. If this coursework (or associated competency) is not completed at a Florida College System institution, it must be completed before the degree is granted. A grade of “C” is the minimum acceptable grade.

- **CLASSICS-LATIN/GREEK (CLS) (CIP = 16.1200)**
  TOTAL PROGRAM HOURS = 120 CREDIT HOURS

  Classics at USF is a language-based, interdisciplinary humanities field. We provide instruction in the Greek and Latin languages, and translation courses that focus on the study of Greek and Roman civilization, literature, mythology, philosophy, and religion.

  Comprised of 5 faculty members who specialize in widely diverse aspects of the Greek and Roman world (such as Greek tragedy and philosophy, Roman epic and historiography) our department combines the intimacy of a small liberal arts college with the wide-ranging educational interests of a large state university.

  Our majors are of particular interest to students who wish to teach the languages, to those who plan graduate study in a humanistic discipline, and to those who want an undergraduate major that focuses on the ancient civilizations that are the cornerstone of the Western Tradition.

**Requirements for the Major in Classics (B.A.)**

- **General Requirements for the Major**
  The Classics Major requires 10 courses and 30 hours, which are divided between language and civilization requirements.

- **Language requirements**
  Students are required to take at least four (4) successive courses in a single language, Latin or Ancient Greek (LAT, LNW, GRE, GRW).

- **Civilization Requirements**
  Students are required to take six (6) upper-level civilization courses, including the core courses offered by Classics: Greek Civilization, Roman Civilization, Classical Mythology, Greek Literature in Translation and Roman Civilization in Translation.

  The sixth remaining class for the major can also be fulfilled through appropriate courses offered by the departments of: History, Humanities and Cultural Studies, Religious Studies and Philosophy, but only with the approval of an advisor.

  All students who wish to enroll in the Classics Major must schedule an appointment with an advisor.
Requirements for the Minor in Classics (CLS)

The Classics Minor requires 5 courses and 15 hours, which are divided between language and civilization requirements.

- **Language requirements**
  Students are required to take at least two (2) successive courses in a single language, Latin or Ancient Greek (LAT, LNW, GRE, GRW).

- **Civilization Requirements**
  Students are required to take three (3) of the core courses offered by Classics: Greek Civilization, Roman Civilization, Classical Mythology, Greek Literature in Translation and Roman Civilization in Translation

Honors Program

To graduate with Honors in Classics, the successful candidate must apply in her/his junior year and complete special requirements during the senior year.

To apply, the candidate must schedule an appointment with an advisor and a thesis director chosen by the candidate.

Admissions Criteria

1. Senior status, with a departmental and overall GPA of 3.50.
2. Completion of the core courses in Classics.
3. An appropriate project accepted by a faculty member of Classics who agrees to serve as thesis director.

Requirements for Completion of Departmental Honors:

1. The candidate must maintain a departmental and overall GPA of 3.50.
2. The candidate must pass two (2) sight translations in either Greek or Latin (passages to be determined by the thesis director and the candidate.)
3. The candidate must turn in the completed thesis (thirty to fifty pages, at the discretion of the thesis director) before April of the senior year, and defend the thesis before a committee of at least three faculty members by May of the senior year. (Committee members to be chosen by the candidate and thesis director.)

Dismissal Procedures

The student must maintain a Departmental GPA of 3.50, must submit the Honors Thesis on time and must pass the scheduled Departmental Honors Examination.

- **INTERDISCIPLINARY CLASSICAL CIVILIZATIONS (ICC) (CIP = 16.1200)**

  TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Interdisciplinary Classical Civilizations is a broad-based area study encompassing the literature, history, linguistics, art and archaeology, philosophy, and religion of Greece, Rome and the Near East from pre-history to late antiquity. For centuries, the study of these vibrant societies has been recognized as essential to a proper understanding of our own culture and, recently, there has been a renewed recognition of the skills such study develops.

All students wishing to enroll in the ICC major must schedule an appointment with the Coordinator of Interdisciplinary Classical Civilizations in order to develop a program of study. Students will be urged to fulfill their General Education and University Exit Requirements, whenever possible, from courses taught within the Classical Civilizations Program. Courses that are applied toward the Gen. Ed. or “Core” Requirements cannot be utilized more than once.

Language Requirement: To complete a major in Interdisciplinary Classical Civilizations, students should demonstrate proficiency at the intermediate level within the target ancient language. This may be accomplished by completing 6-12 hours of coursework or by demonstrated competency at the intermediate level through examination. If this coursework (or associated competency) is not completed at the community college, it must be completed before the degree is granted. A grade of “C” is the minimum acceptable grade. If the target language is Latin or Greek, this would mean the completion of either LAT 2220 or GRE 2220 at USF, or the demonstration of a similar level of proficiency by examination.

The ICC Major can be fulfilled in one of two ways:

A. The ICC Major (33 hours minimum) is intended for students who wish to become familiar with aspects of the Classical Heritage of Western Civilization.

B. The ICC Major with Honors (39 hours minimum) is intended for students who wish to continue their studies beyond the undergraduate level and includes a thesis (3 hours). The student must also maintain a 3.50 GPA within the major and a 3.30 overall GPA.
A. Requirements of the ICC Major (33 hours minimum):
1. 12 hours from the ICC “Core”:
   - CLA 3103 Greek Civilization or CLT 3101 Greek Literature in Translation
   - CLA 3123 Roman Civilization or CLT 3102 Roman Literature in Translation
   - HIS 3930 Special Topics or REL 3280 Biblical Archaeology
   - CLT 3370 Classical Mythology
2. 18 hours (minimum) from the ICC “Fields:”
   - Two (2) courses from an approved list of 2000- to 3000-level courses in Anthropology, Classics, History, Philosophy or Religious Studies.
   - Four (4) courses from an approved list of 3000- to 4000-level courses in Anthropology, Classics, History, Philosophy or Religious Studies.
3. Three to four hours from an approved list of 4000-level Exit Requirement courses in Anthropology, Classics, History, Philosophy or Religious Studies.

B. Requirements of the ICC Major with Honors (39 hours minimum):
1. 12 hours from the ICC “Core”:
   - CLA 3103 Greek Civilization or CLT 3101 Greek Literature in Translation
   - CLA 3123 Roman Civilization or CLT 3102 Roman Literature in Translation
   - HIS 3930 Special Topics or REL 3280 Biblical Archaeology
   - CLT 3370 Classical Mythology
2. 12 hours beyond the B.A. FLEX Language Requirement in either Greek or Latin:
   - Competence in one or two ancient languages. Courses must be taken with the approval of the Coordinator.
3. 12-16 hours (4 courses) from the Major Field Requirements:
   - Major Fields are currently defined in Ancient History, Philosophy and Religious Studies. The student will select four courses in the Major Field area with the approval of the Coordinator. The student must take at least one exit-level course in the Major Field he/she chooses.
4. 3 hours of Faculty Mentored Research:
   - The student will complete a research project under the direction of a faculty committee composed of a faculty mentor and at least two additional faculty members. The project is intended to produce a substantial research paper that can serve as a writing sample when the student applies for advanced graduate study.
5. Maintenance of a 3.50 GPA within the major and a 3.30 overall GPA.

Requirements for the Minor in Interdisciplinary Classical Civilizations (ICC)
The ICC Minor (15 hours minimum) can be fulfilled in one of two ways:
A. Courses are divided by level, with the “field” of study unrestricted:
   1. Two courses (6 hours) from the ICC Minor “Core”:
      - CLA 3103 Greek Civilization or CLT 3101 Greek Literature in Translation
      - CLA 3123 Roman Civilization or CLT 3102 Roman Literature in Translation
      - CLT 3370 Classical Mythology
   2. Three to four credit hours from 2000- or 3000-level courses in Anthropology, History, Philosophy and Religious Studies, selected with the guidance and approval of the Coordinator.
   3. Six to eight credit hours from 3000- or 4000-level courses in Anthropology, History, Philosophy and Religious Studies, selected with the guidance and approval of the Coordinator.
B. Courses are organized along an interdisciplinary principle:
   1. Two courses (6 hours) from the ICC Minor “Core”:
      - CLA 3103 Greek Civilization or CLT 3101 Greek Literature in Translation
      - CLA 3123 Roman Civilization or CLT 3102 Roman Literature in Translation
      - CLT 3370 Classical Mythology
   2. Nine to twelve credit hours from the Interdisciplinary Requirements.
      - The student will complete three 3-4 credit courses, one each from three of the following four fields:
        1. Anthropology
        2. History
        3. Philosophy
      - Courses are chosen with the guidance and approval of the Coordinator from the list certified for the major.

MODERN LANGUAGES (FRE/GMS/GRK/ITA/RUS/SPA)
Foreign Language major programs are designed to meet the needs of students who desire competency in a language and an expanded understanding of its culture and literature. They are of particular interest to students who wish to teach languages, those who plan to further their studies in graduate school, and those who seek careers in various types of foreign or foreign-related employment, either in government or business.
Major programs leading to the Bachelor of Arts degree are offered in French, German, Italian, Russian, and Spanish. All major programs in foreign language require a total of 32 hours of coursework above the intermediate level. French and Spanish majors with an International Studies and Business Concentration require a total of 63 hours of coursework distributed in the three areas.

The following languages may also be taken as a minor: Chinese, French, German, Italian, Latin, Modern Greek, Russian, and Spanish. The minor consists of 15-18 hours of course work in French and Spanish above the second-year level, and 16 hours in the other languages except for the less commonly taught languages. In order to begin taking courses for the minor, the student will have satisfactorily completed the intermediate level or have equivalent proficiency in the foreign language. Instruction in less commonly taught languages may be available upon sufficient demand.

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution:

Students wishing to transfer to USF should complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

To complete a major in Classics, students should demonstrate proficiency at the intermediate level within the target language. This may be accomplished by completing 6-12 hours within the language or by demonstrated competency at the intermediate level. If this coursework (or associated competency) is not completed at a Florida College System institution, it must be completed before the degree is granted. A grade of “C” is the minimum acceptable grade.

**French (FRE) (CIP = 16.0901)**

**TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

*Required courses for the major (15 credit hours):*
  - FRE 2240 Conversation II
  - FRE 3420 Composition I
  - FRE 3234 Reading in French Literature and Culture
  - FRW 4100 The French Novel
  - FRW 4101 Introduction to French Drama and Poetry

*Supporting courses required for the major (17 credit hours):*
  - 18 hours in 3000-, 4000-, or 5000-level courses planned with an advisor.

**French (FRE) with an International Studies and Business Concentration (IFB)**

*Required courses in French for the major (15 credit hours):*
  - FRE 2240 Conversation II
  - FRE 3420 Composition I
  - FRE 3234 Reading in French Literature and Culture
  - FRW 4100 The French Novel
  - FRW 4101 Introduction to French Drama and Poetry

*Supporting courses in French required for the major (9 credit hours):*
  - FRE 4421 Composition II
  - FRE 4700 French Linguistics
  - FRE 4930 Selected Topics
  - FRE 5425 Advanced Written Expression
  - FRE 5566 Contemporary France

*Required courses in International Studies (9 credit hours):*
  - CPO 2002 Introduction to Comparative Politics
  - CPO 4930 Comparative Government & Politics of Select Areas
  - EUS 3000 Europe

*Required courses in Business (18 credit hours):*
  - ACG 3074 Managerial Accounting for Non-Business Majors
  - ECO 1000 Basic Economics
  - FIN 3403 Principles of Finance
  - MAN 3025 Principles of Management
  - MAR 3023 Basic Marketing
  - XXX XXXX Capstone Course

*Supporting courses in Business (6 credit hours):*
  - Choose any two (2) upper-level International Business courses.

*Required overseas study courses and/or area studies courses (6 credit hours):*
Select six (6) overseas study credit hours or three (3) credit hours overseas study plus three (3) credit hours area studies courses planned with an advisor.

**German Studies Major (GMS) (CIP = 16.0501)**

**TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

*Requirements for the major (11 credit hours):*
- Select nine (9) hours of 3000- or 4000-level coursework in German (taught in German)
- GEW 4900 Directed Study or FLE 4316 Language Principles of Acquisition

*Supporting courses required for the major (21 credit hours):*
- Select 21 hours in 2000-, 3000- or 4000-level courses with coursework in German, including approved courses in related disciplines, planned with an advisor.

**Italian (ITA) (CIP = 16.0902)**

**TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

*Required courses for the major (15 credit hours):*
- ITA 2240 Italian Conversation I or ITA 2241 Italian Conversation II
- ITA 3420 Composition
- ITT 3504 Italian Culture Through Film
- ITW 4100 Survey of Italian Literature I
- ITW 4101 Survey of Italian Literature II or ITT 4505 Italy and the Italian-American Experience

*Supporting courses required for the major:*
- Select 17 hours in 3000- or 4000-level courses, including approved courses in related disciplines, planned with an advisor.

**Russian (RUS) (CIP = 16.0402)**

**TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

*Required courses for the major (14 credit hours):*
- RUS 3240 Conversation I
- RUS 4241 Conversation II
- RUT 3110 Nineteenth-Century Russian Literature in English
- RUT 3111 Twentieth-Century Russian Literature in English

*Supporting courses required for the major (18 credit hours):*
- Select 18 hours in 3000- or 4000-level courses planned with an advisor.

**Spanish (SPA) (CIP = 16.0905)**

**TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

*Required courses for the major (21 credit hours):*

**Language (6 hours):**
- *SPN 3300 Advanced Grammar and Composition
- SPN 4301 Expository Writing

**Literature (9 hours):**
- SPW 3030 Introduction to Hispanic Literary Studies
- SPW 4100 Survey of Spanish Literature I or SPW 4101 Survey of Spanish Literature II
- SPW 4130 Survey of Spanish-American Literature I. or SPW 4131 Survey of Spanish-American Literature II

**Civilization (6 hours):**
- SPN 3500 Spanish Civilization
- SPN 3520 Spanish-American Civilization

*Supporting courses required for the major (12 credit hours):*
- Select 12 hours in 3000-, 4000- or 5000-level SPN or SPW courses and may include one course (three-credit hours) of Spanish/Spanish American Literature in translation. Two of these electives must be at the 4000-level. All electives must be approved by a department advisor prior to enrollment.

*SPN 3300 Advanced Spanish Grammar and Composition may be substituted for native speakers with SPN 2340 Advanced Spanish for Native Speakers I or SPN 2341 Advanced Spanish for Native Speakers II.

**Spanish (SPA) with an International Studies and Business Concentration (ISB)**

*Required courses in Spanish for the major (18 credit hours):*
- SPN 3300 Advanced Spanish Grammar and Composition
- SPN 3440 Spanish for Business and International Trade I
SPN 3441 Spanish for Business and International Trade II
*SPN 4301 Expository Writing
SPN 4410 Advanced Conversation
SPN 3500 Spanish Civilization
SPN 3520 Spanish-American Civilization
*SPN 3300 Advanced Spanish Grammar and Composition is the prerequisite SPN 4301 Expository Writing. SPN 3300 may be substituted for native speakers with SPN 2340 Advanced Spanish for Native Speakers I or SPN 2341 Advanced Spanish for Native Speakers II.

Supporting courses in Spanish required for the major (6 credit hours):
- SPN 2340 Advanced Spanish for Native Speakers I
- SPN 2341 Advanced Spanish for Native Speakers II
- SPN 4700 Spanish Linguistics
- SPW 3030 Introduction to Hispanic Literary Studies
- SPW 4100 Survey of Spanish Literature I
- SPW 4101 Survey of Spanish Literature II
- SPW 4130 Survey of Spanish-American Literature I
- SPW 4131 Survey of Spanish-American Literature II
- SPW XXXX Any SPW Course

Required courses in International Studies (9 credit hours):
- CPO 2002 Introduction to Comparative Politics
- CPO 4930 Comparative Government & Politics of Select Areas
- INR 1015 World Perspective

Required courses in Business (18 credit hours):
- ACG 3074 Managerial Accounting for Non-Business Majors
- ECO 1000 Basic Economics
- FIN 3403 Principles of Finance
- MAN 3025 Principles of Management
- MAR 3023 Basic Marketing
- XXX XXXX A Capstone Course

Supporting courses in Business (6 credit hours):
- Choose any two (2) upper-level International Business courses.

Required overseas study courses and/or area studies courses (6 credit hours):
- Select six (6) overseas study credit hours or three (3) credit hours overseas study plus three (3) credit hours area studies courses planned with an advisor.

TRACK IN INTERNATIONAL STUDIES (LATIN AMERICA) WITH A LANGUAGE (SPANISH) & BUSINESS CONCENTRATION

Required International Studies courses (15 credit hours):
- CPO 2002 Introduction to Comparative Politics
- CPO 4930 Comparative Government & Politics of Select Areas
- INR 1015 World Perspective
- INR 2002 Introduction to International Relations
- INR 3038 International Wealth and Power

International Studies electives (3 credit hours)
- INR 3018 World Ideologies
- INR 3202 International Human Rights
- POT 4109 Politics and Literature

Required courses in Spanish (12 credit hours):
- SPN 3440 Spanish for Business and International Trade I
- SPN 3500 Spanish Civilization
- SPN 3520 Spanish-American Civilization
- SPN 4301 Expository Writing

Required courses in Business (18 credit hours):
- ACG 3074 Managerial Accounting for Non-Business Majors
- ECO 1000 Basic Economics
- FIN 3403 Principles of Finance
- MAN 3025 Principles of Management
- MAR 3023 Basic Marketing
- XXX XXXX A Capstone Course

Supporting courses in Business (6 credit hours):
Choose any two (2) upper-level International Business courses.

Required overseas study courses and/or area studies courses (9 credit hours):
Select three (3) overseas study credit hours or three (3) credit hours overseas study plus six (6) credit hours area studies courses planned with an advisor (2 courses from International Studies or other departments).

Requirements for the Minor in Chinese Language (CHN)
The Minor in Chinese Language is designed for majors in any field who wish to demonstrate in-depth knowledge of Chinese language, culture and society. The minor in Chinese is designed to equip students with a foundation in Chinese language and culture necessary to successfully interact with Chinese people.
A total of 18 semester hours is required for the minor in Chinese Language. Of those 18 hours, 14 hours are to be fulfilled with required core courses in language, culture, and literature. An additional 4 hours are to be fulfilled with electives selected in consultation with a Chinese faculty advisor. A minimum of 10 of the 18 hours required for the minor must be completed in residence at USF.

Required courses for the minor (14 credit hours):
- CHI 3241 Advanced Chinese Conversation I
- CHI 3242 Advanced Chinese Conversation II
- CHT 3500 Introduction to Chinese Culture
- CHT 3110 Traditional Chinese Literature in Translation or CHT 3124 Modern Chinese Literature in Translation

Supporting courses required for the minor (4 credit hours):
- CHI 4905 Directed Study or
- CHI 4930 Selected Topics

Requirements for the Minor in French (FRE)
Required courses for the minor (6 credit hours):
- FRE 2240 Conversation II
- FRE 3420 Composition I

Supporting courses required for the minor (9 credit hours):
Select 9 hours in 3000-, 4000-, or 5000-level courses, except courses in translation.

Requirements for the Minor in German Studies (GMS)
Required courses for the minor (6 credit hours):
Select 6 hours of 3000- or 4000-level GEW or GER coursework in German (taught in German).

Supporting courses required for the minor (9 credit hours):
9 hours of 2000-, 3000-, or 4000-level GER, GET or GEW coursework in German.

Italian Minor (ITA)
Required courses for the minor (6 credit hours):
- ITA 2240 Italian Conversation I or ITA 2241 Italian Conversation II
- ITA 3420 Composition

Supporting courses required for the minor (9 credit hours):
Select 9 hours in 3000- or 4000 level-courses except courses in translation.

Requirements for the Minor in Modern Greek (GRK)
Required courses for the minor (16 credit hours):
- GRK 2220 Modern Greek III
- GRK 2221 Modern Greek IV
- GRK 4905 Directed Study
- GRW 5934 Selected Topics

Requirements for the Minor in Russian (RUS)
Required courses for the minor (8 credit hours):
- RUS 3240 Conversation I
- RUS 4241 Conversation II

Supporting courses required for the minor (7 credit hours):
Select seven (7) hours in 3000- or 4000-level courses.
Requirements for the Minor in Spanish (SPA)

Required courses for the minor (18 credit hours):
*SPN 3300 Advanced Grammar and Composition
SPN 4301 Expository Writing

Supporting courses required for the minor (12 hours):
Select 12 hours in 3000-, 4000- or 5000-level SPN or SPW courses, may include one course (three credit-hours) of Spanish/Spanish American Literature in translation. Two of these courses must be at the 4000-level. All electives must be approved by a department advisor prior to enrollment.

*SPN 3300 Advanced Spanish Grammar and Composition may be substituted for native speakers with SPN 2340 Advanced Spanish for Native Speakers I or SPN 2341 Advanced Spanish for Native Speakers II.

World Languages Faculty
STUDENT ORGANIZATIONS IN THE COLLEGE OF ARTS AND SCIENCES

Advertising Club – A platform for all students who aspire to be successful in the multifaceted world of strategic marketing communications with a special emphasis on the advertising business. Members are connected with the Tampa Bay advertising community through professional guest speakers, AD2 Tampa Bay, creative workshops, internship/job opportunities and industry events. It provides members first-hand advertising experience while aiding with the communication needs of the university and local community. Through all of this, the USF Ad Club promotes professional growth and provides members with the content and connections to make it in the evolving creative and business world today. For more information, contact Hal Vincent at hvincent@usf.edu.

Africana Studies Club (AFA Club) - Provides a forum for the open discussion of topics related and relevant to people of African descent both on the African continent and in the Diaspora. The organization provides a vital link between the students and the faculty of the Department of Africana Studies, and acts as a base for student activism on campus and in the community.

American Chemical Society Student Affiliate - (Chemistry Society at USF) – To enhance the students’ knowledge of chemistry and chemistry related fields through interaction with faculty and students. This organization allows students to become better acquainted and ensures intellectual stimulation from a professional organization. For further information please call (813) 974-2144, CHE 205 or visit http://chemistry.usf.edu/society/.

American Society for Information Science and Technology (ASIS&T) - To advance the information sciences and related applications of information technology by providing focus, opportunity, and support to information professionals and organizations. Open to full and part-time students. Student membership prerequisite: faculty advisor’s signature. For more information please go to: http://www.asis.org

Anthropology Club - To promote and encourage an interest in Anthropology among individuals within the USF community, to provide a forum for the exchange of anthropological ideas between faculty and students, and foster an informal and creative atmosphere for interaction. For further information please call the Department Office at (813) 974-2138.

Classical Society – Open to all USF students and established to promote interest in the ancient world, provide educational and social events among students and faculty, and to foster the Classical heritage of the modern world. For more information, go to the Society website on Blackboard.

Colloquia in Literature and Linguistics - Provides a stimulating environment in which graduate students in French, Spanish, and Linguistics can share and expand their scholarly endeavors. Sponsors guest lectures. For further information please go to CPR 419.

Communication Council - To encourage and promote extracurricular learning as well as social interaction among communication majors and minors. For further information please go to CIS 3058.

Economics Scholars Society - We aim to promote and develop the application of economic concepts within the student body and provide a social basis for interaction and networking. For further information visit CMC 205N or email ess.usf@gmail.com.

Eta Sigma Phi – Open to all students of classical Greek and Latin, the purpose of the national honor society for classics is to promote classical studies, and to stimulate interest in the history, literature, and art of ancient Greece and Rome. For further information, visit the Classical Society website on Blackboard.

Feminist Student Alliance – Is a feminist organization for social equality and achieves its aim through activism around campus and in our community.

French Club - To promote the interest of the French language, Francophone culture and civilization through programs scheduled at club meetings and through social events of the club. For further information please go to CPR 419.

Gamma Theta Upsilon (GTU) - An international honor society in geography. The purposes of GTU are: to further professional interest in geography by affording a common organization for those interested in the field; to strengthen student and professional training through academic experiences in addition to those of the classroom and laboratory; to encourage student research of high quality. For further information, please go to NES 201.
Geographical Society of USF - Open to all undergraduate and graduate students at USF, regardless of academic major. Its goals are to: 1) further professional and personal interests in Geography by affording a common organization for those interested in the field, 2) strengthen student and professional training through academic experiences other than those of the classroom, 3) provide fellowship and guidance for those with an interest in the field of Geography, and 4) engage in community and civic work for the betterment of our university and surrounding community. For further information please go to NES 201.

Geology Club - The Geology Club at USF involves its members along with the department in many activities such as trips, annual T-shirt sales and extracurricular academic participation. These events include hosting weekly lecture series by professional geologists and providing opportunities for members to teach geology to local elementary schools. For further information please contact Dr. Mark Rains, SCA 531; or Geology Web Page @ http://geology.usf.edu/

German Culture Club - To promote the interest of German language, culture, and civilization through programs scheduled at club meetings and through social events of the club. For further information please go to CPR 419.

History Club – see Phi Alpha Theta

Humanities & Cultural Studies Organization
HCSO, through educational, practical, and fun events, provides a solid support group for students by offering them further opportunities to learn, socialize, be heard, and be active members of their university and community. Our events lean toward cultural exploration through the fine arts. We are open to all and welcome those interested in study of the fine arts, American studies, Food studies, and Film studies.

International Studies Organization - To promote interaction between students and faculty. To enlighten the student populace of USF of the values of International studies and to foster gender relations among international studies majors. For further information please go to SOC 373.

Italian Club - The purpose of the Circolo Culturale Italiano is to provide educational opportunities and experiences in the American Life to its members and help them to improve their knowledge of the Italian language and culture. It also sponsors lectures, social events and grants scholarships to deserving students of Italian. For further information please go to CPR 419.

Kappa Tau Alpha – An honor society that recognizes academic excellence and promotes scholarship in journalism and mass communication. The top 10% of the graduating class is invited to join each semester. For more information, please contact Dr. Kelli Burns at kburns@usf.edu.

Lambda Pi Eta - The local chapter of the official honor society of the National Communication Association recognizes outstanding academic achievement in the discipline of Communication.

LINGO – This is an organization for those interested in language learning and teaching. For more information, please go to CPR 419 or visit the organization’s Blackboard site.

Iota Iota Iota - Triota for short, is an academic honor society in women’s studies. Its purpose is to encourage and support scholarship and excellence in women’s studies. Triota members strive to maintain the feminist values central to women’s studies: egalitarianism, inclusiveness, and the celebration of the diversity of women’s experience. Triota’s mission is one of service to other women’s studies students.

Omicron Delta Epsilon - The international economics honor society promoting outstanding achievements in economics and the establishment of closer ties between students and faculty.

Phi Alpha Theta - National Honor Society for outstanding History students to promote the study of History. For more information, go to www.history.usf.edu.

PHI ORG (Undergraduate Philosophy Organization) - Open to all USF students with an interest in philosophy. The purpose of the organization is to enhance the study of philosophy and to increase awareness of philosophical issues in the campus community.

Phi Sigma Iota - International Honor Society for outstanding majors and minors in Classics, all Foreign Languages and Literatures, Bilingual Education, Foreign Language Education and Comparative Literature.
Pi Mu Epsilon - The mathematics honor society to which the best scholars among our students are invited. Particular emphasis is given to performance in mathematics courses. For further information please go to PHY 342.

Pi Sigma Alpha - To function as an integral part of the political science department in the promotion of worthwhile extracurricular activities related to public affairs. For further information please go to SOC 352.

Psi Chi - Psi Chi is the International Honor Society in Psychology, founded in 1929 for the purposes of encouraging, stimulating, and maintaining excellence in scholarship, and advancing the science of psychology. Membership is open to graduate and undergraduate men and women who meet the minimum qualifications. Psi Chi is a member of the Association of College Honor Societies and is an affiliate of the American Psychological Association and the Association for Psychological Science.

Public Relations Student Society of America (PRSSA) - The Walter E. Griscti Chapter of the Public Relations Student Society of America (PRSSA) is a pre-professional student organization devoted to learning and exploring within the field of public relations. For more information, contact Kevin Hawley at kevinhawley@usf.edu.

Radio Television Digital News Association (RTDNA) - Inspires students interested in a career in mass communications, whether their focus is broadcast news, production or radio. Our monthly meetings include workshops and discussions with some of Tampa's most influential TV and radio broadcasters, as well as prominent journalists, in the nation's 13th largest market. For more information, contact Travis Bell at tbell@usf.edu.

Religious Studies Club – The Religious Studies Club is open to all USF students who are interested in the academic study of religion. The club gives students an opportunity to learn more about religion and its study from one another and guests invited to club sponsored meetings and events. The Religious Studies Club can be contacted at: RSCUSF@yahoo.com

Russian Club - To promote the interest of Russian language, culture, and civilization through programs scheduled at club meetings and through social events of the club. For further information please go to CPR 427, Olga Oleynik, ooleynik@usf.edu.

Sigma Pi Sigma - Physics National Honor Society. Contact Dr. Robert Criss at (813) 974-0165 for more information.

Sigma Tau Delta – International Honor Society for students of English

Society of Physics Students (SPS) - An affiliate of the American Institute of Physics and includes the honor society of Sigma Pi Sigma. Contact Dr. Robert Criss at (813) 974-0165 for more information.

Society of Professional Journalists (SPJ) - SPJ is a way for journalism students at the University of South Florida to network and improve on things such as resume building, branding yourself and writing skills. Meetings every other Wednesday at noon in CIS 3075 at 6 p.m. include speakers, workshops and networking. For more information, contact Wayne Garcia at wgarcia@usf.edu.

Student Chapter of the Mathematical Association of America - A club for students who enjoy doing, discussing and learning mathematics. For further information please go to PHY 342.

Student Environmental Association - The purpose of this organization is to provide interaction among students interested in environmental issues on campus, in our region, and around the world. For further information, please go to NES 201.

University Psychology Association – The purpose of this organization is to foster understanding and stimulate interest in the discipline of Psychology and its sub fields. University Psychology Association is open to all USF students interested in the field of Psychology.
The College of Behavioral & Community Sciences (CBCS) prepares students, scholars, human service providers, policy makers, and other professionals to improve the quality of life, health, and safety of diverse populations. Through multidisciplinary teaching, research, and engagement with community partners, the College focuses on the development and implementation of innovative solutions to the complex challenges that affect the behavior and well-being of individuals, families, populations, and the communities in which we live.

The College offers undergraduate programs in Communication Sciences and Disorders, with concentrations in Interpreter Training, Deaf Studies, and Language-Speech-Hearing; Criminology, Gerontology, Long-Term Care Administration, Behavioral Healthcare, and Social Work. Minors are offered in American Sign Language, Applied Behavior Analysis, Behavioral Healthcare, Criminal Justice, and Gerontology. Students with a CBCS major or minor are eligible to participate in the Undergraduate Research Certificate entitled RISE: Research Intensive Student Experience.

Master’s programs are available in Applied Behavior Analysis, Criminal Justice Administration, Criminology, Gerontology, Rehabilitation and Mental Health Counseling, Social Work, and Speech-Language Pathology.

Doctoral programs are offered in Aging Studies, Applied Behavior Analysis, Audiology, Communication Sciences and Disorders, Criminology, and Social Work. Graduate studies in Behavioral Health are offered in collaboration with the College of Public Health at both the master’s and doctoral level.

General Information
The College of Behavioral and Community Sciences Dean’s Office is located in MHC 1110 and the Office of Student Services (which handles student-related academic matters) is located in MHC 1143/1149. Academic Advising is housed within the major departments. Advisor contact information is available at: http://www.cbcs.usf.edu/CurrentStudents/ContactAdvising.cfm. Additional information about the College of BCS is also available at http://www.cbcs.usf.edu/index.cfm.

General Requirements for B.A./B.S./B.S.W. Degree
Within the College of Behavioral and Community Sciences
The College of Behavioral and Community Sciences offers three undergraduate degree options: Bachelor of Arts, Bachelor of Science, and Bachelor of Social Work.

Entrance Requirement to Declare a Major in the College of Behavioral and Community Sciences
Students must have a minimum 2.00 cumulative grade point average in any previously attempted USF/overall college-level coursework prior to declaring a major in the College of Behavioral and Community Sciences. Exceptions will be considered on an individual basis, with departmental approval required, by the CBCS Academic Regulations Committee.

EACH STUDENT IS RESPONSIBLE FOR MEETING GRADUATION REQUIREMENTS AS FOLLOWS:
1. Complete at least 120 accepted semester hours with a minimum USF cumulative Grade Point Average (GPA) and overall GPA of 2.00. All grades including “D”s and “F”s are used to calculate USF, overall, and major GPAs for students in the College of Behavioral and Community Sciences.
2. Maintain major GPA of 2.00 in USF coursework.
3. Complete the Foreign Language Entrance Requirement. Students pursuing a B.A. degree must also complete the Foreign Language Exit Requirement.
4. Satisfy Board of Governor’s Resolution 6.017 (Gordon Rule) concerning computation and communication. Transfer students who enter USF with 60 or more semester hours from a regionally accredited institution are considered to have met the communication portion of this Regulation.
5. Complete 36 hours of General Education Requirements (for more information, see section titled “Foundations of Knowledge and Learning” (FKL) in Academic Policies and Procedures section) as follows:
   Core Curriculum Requirements:
   Six (6) hours credit in English Composition
   Six (6) hours credit in Mathematics OR Three (3) in Mathematics and Three (3) in Quantitative Reasoning
   Six (6) hours credit in Natural Sciences (3 credits in Life Science and 3 credits in Physical Science)
   Six (6) hours credit in Social and Behavioral Sciences
   Six (6) hours credit in Humanities
   Three (3) hours credit in Fine Arts
   Three (3) hours credit in Human and Cultural Diversity in a Global Context

Prior to graduation, each student must also complete 6 hours of Exit Requirements:
   Three (3) hours credit in Capstone category (must be on current approved capstone exit course list)
   Three (3) hours credit in Writing Intensive category (must be on current approved writing intensive exit course list)

6. Complete at least 9 semester hours at a Florida public university in the Florida State University System during summer terms if entering USF with fewer than 60 semester hours.
7. Complete all major course requirements.
8. Thirty (30) of the last 60 semester hours must be completed at USF Tampa to fulfill the residency requirement.
9. When double majoring, a maximum of 2 courses or 8 hours may be used to satisfy requirements between majors. Students should check with the advisors in both departments when pursuing more than one degree.
10. S/U contracts must be negotiated in writing within the first three (3) weeks of the term. No credits may be taken S/U in the student’s major unless S/U is the only grading option. Coursework fulfilling the Gordon Rule requirement may not be taken S/U.
11. The Audit option is available only during the first 5 (five) days of classes.
12. Complete a minimum of 48 hours of upper-level courses (numbered 3000 or above).
13. Students must apply for graduation by the end of the fourth week of their final semester (See Registrar’s calendar for exact dates.) For late application information, please refer to the Application for Graduation section of the Academic Policy and Procedures division of the catalog.

Departmental Minor

In order to help students develop concentrations in elective work taken in conjunction with their chosen major, the College of Behavioral and Community Sciences offers minors in the following areas: American Sign Language, Applied Behavior Analysis, Behavioral Healthcare, Criminology, and Gerontology.

Students may not use courses in the major for the minor, unless approved by the department offering the minor. Specific requirements for the different minors appear with the departmental summaries listed in “Departments and Programs” Section of this catalog.

Certificate in Undergraduate Research in Behavioral & Community Sciences

The Undergraduate Research Certificate in the College of Behavioral and Community Sciences is designed for students interested in attending graduate school or pursuing research careers. Students complete a systematic undergraduate research preparation program consisting of 16 hours of coursework, many of which will count toward their general education requirements or requirements for their major. An overall USF GPA of at least 2.50 must be maintained. A grade of “B” (not B-) must be obtained in all courses applying toward the certificate.

Required courses include:

- IDS 1505 Introduction to Research in Behavioral and Community Sciences 1
- IDS 2600 Application of Research in Community Settings 1
- STA 2122 Social Science Statistics (or approved Statistics course) 3
- Research Methods Course (PSY 3213; CCJ 3701; GEY 4401; SOW 3401 or equivalent) 3
- MHS 4741 Advanced Research Methods: Behavioral & Community Sciences 3
- MHS 4731 Writing for Research and Publication (also fulfills the FKL WRIN 3 EXIT requirement) 3
- Directed Research or Thesis 2–6

Students who are pursuing a minor or major in the College of Behavioral and Community Sciences will have the opportunity to apply for Undergraduate Research Assistantships to work with a faculty member conducting research in an area of interest to the student. Students may also participate in the CBCS Undergraduate Research Interest Group. Contact: Beatrice Smith (bsmith@bcs.usf.edu) for additional information.

- COMMUNICATION SCIENCES AND DISORDERS (CSD) (B.A.) (CIP = 51.0204) TOTAL PROGRAM HOURS = 120 CREDIT HOURS

The undergraduate program in Communication Sciences and Disorders (CSD) offers three curriculum concentrations that lead to the B.A. degree:

1. Language-Speech-Hearing (LSH): The LSH concentration provides pre-professional study that prepares the student for Master’s level preparation in Speech-Language Pathology, or Deaf Education, or for entry into the clinical Doctor of Audiology degree.
2. Interpreter Training (ITT): The ITT concentration prepares individuals to work in settings with clients who require American Sign Language (ASL) interpretation due to their deafness.
3. Deaf Studies (DST): The DST concentration is intended to prepare students to work in a variety of settings (e.g., social services, vocational rehabilitation, education, etc.) with a variety of deaf and hard of hearing individuals utilizing various communication methods, both manual and oral.

The Department also offers an undergraduate minor in American Sign Language (ASL), a Master’s of Science degree in Speech-Language Pathology, a Doctor of Audiology degree, and a Ph.D. in Communication Sciences and Disorders.
Requirements for the Concentration in Language-Speech-Hearing (LSH)
CIP = 51.0204 (Track 1 of 3)
Coursework is sequenced for the Language-Speech-Hearing (LSH) concentration in Communication Sciences & Disorders. All students must complete study in basic knowledge of the communication sciences and in basic knowledge of communication disorders. Upon admission to the concentration, each student will be assigned an advisor to provide guidance in academic planning.

Prerequisites (State Mandated Common Prerequisites) for Students transferring from a Florida College System Institution:
The State of Florida has identified common course prerequisites for the concentration in Language-Speech-Hearing. All state mandated prerequisite courses must be completed with a grade of B- or better prior to the first semester in which courses are taken in the major. (Note that national certification in Speech-Language Pathology or Audiology through the Council of Academic Accreditation of the American-Speech-Language-Hearing Association requires that sufficient competency be demonstrated in coursework in the Social/Behavioral, Biological and Physical Sciences, and Mathematics.) If the courses are not transferred in, the course(s) may be taken at USF but may delay taking major coursework in prescribed sequence.
Students must complete one course (3 credit hours) from each of the following areas:

<table>
<thead>
<tr>
<th>Course</th>
<th>Notes</th>
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<tbody>
<tr>
<td>STA XXXX</td>
<td>Statistics</td>
</tr>
<tr>
<td>BSC XXXX or APK XXXX or ANT 2511 Biological Science</td>
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<tr>
<td>PHY XXXX or CHM XXXX or PSC XXXX Physical Science</td>
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<tr>
<td>PSY XXXX or EXP XXXX or CLP XXXX or DEP XXXX or SYD XXXX or SYO XXXX or SYP XXXX or FYC XXXX or FAD XXXX Social/Behavioral Sciences</td>
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Required Courses (45 semester hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Notes</th>
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<tbody>
<tr>
<td>SPA 3002</td>
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<tr>
<td>SPA 3030</td>
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<td>SPA 3101</td>
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<td>SPA 3112</td>
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<td>SPA 3004</td>
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<td>SPA 3011</td>
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<td>SPA 3310</td>
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<tr>
<td>SPA 3261</td>
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<tr>
<td>SPA 4104</td>
<td></td>
</tr>
<tr>
<td>SPA 4XXX</td>
<td>SPA elective (consult with advisor for approval)</td>
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<tr>
<td>SPA 4321</td>
<td></td>
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<tr>
<td>SPA 4050</td>
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<tr>
<td>SPA 4250</td>
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<tr>
<td>SPA 4257</td>
<td></td>
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<tr>
<td>SPA 4510</td>
<td></td>
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</tbody>
</table>

Effective July 1989, the academic requirements for employment in the public school system for Speech-Language Pathologists is a Master’s degree.

Students in the LSH concentration are encouraged to join the USF chapter of the National Student Speech-Language-Hearing Association. This group is affiliated with the American Speech-Language-Hearing Association (ASHA) and has many membership benefits.

Minimum Grade for Majors
A student must receive a “C-” grade or better in all courses within the major and in required major course prerequisites. Any student who receives a grade of “D+” or lower in more than two USF Communication Sciences and Disorders courses will need to pursue major reselection. Grade forgiveness may be used for two courses only and may be used only for coursework taken in the first year of study at the 3000-level. Courses that comprise the second year of the major or those at the 4000-level may not be repeated for grade forgiveness.

Requirements for the Concentration in Interpreter Training Concentration (ITT)
CIP = 51.0204 (Track 2 of 3)
The ITT concentration seeks to educate students to become sign language interpreters. The ITT program includes instruction in both the theory and practice of sign language interpretation. A program of 49 credit hours (43 Core Credits and 6 Elective Credits) is planned for the student majoring in the Interpreter Training concentration.
Students entering the ITT concentration must demonstrate proficiency in ASL at the intermediate level prior to beginning the first semester of core courses in the major. Proficiency is demonstrated through successful completion of the ASL prerequisite courses listed below (or equivalent transfer courses) with a minimum grade of B- or higher in each course.

Prerequisites (State Mandated Common Prerequisites) for Students transferring from a Florida College System Institution:

The State of Florida has identified common course prerequisites for the concentration in Interpreter Training. The following courses must be completed with a C- or better prior to the first semester in which courses are taken in the major. If the courses are not transferred in, the course may be taken at USF.

- ASL X140 Basic American Sign Language
- ASL X150 Intermediate American Sign Language
- ASL X160 American Sign Language III or ASL X161 Advanced American Sign Language
- ASL X200 or ASL X201 American Sign Language IV
- ASL X300 or ASL X301 Structure of Sign Language

ITT Prerequisites (Minimum grade of B- or higher required for each course):

- ASL 2140C Basic American Sign Language  4
- ASL 2150C Intermediate American Sign Language  4
- ASL 4161C Advanced American Sign Language  3
- ASL 4201C American Sign Language IV  3
- ASL 4301C Structure of Sign Language  3

Core Classes (43 hours):

- INT 3270 Interpreting Process and Skill Development  3
- INT 3112 Translation from English and from ASL  3
- INT 3004 Fundamentals of Interpreting  3
- SPA 4930 Selected Topics-American Sign Language (proposed as ASL 3930)  3
- ASL 3324 Advanced ASL Discourse  3
- SPA 4930 Interpreting Practicum I (proposed as INT 3945)  3
- INT 3205 Interpreting I  3
- ASL 3514 American Deaf Culture  3
- INT 4206 Interpreting II  3
- INT 4211 Transliterating  3
- INT 4208 Interpreting III  3
- INT 4944 Practicum  3
- INT 4190 Senior Seminar  3
- INT 4235 Advanced Receptive Voicing  3
- SPA 4962 Undergraduate Comprehensive Exam  1

Required Elective (6 hours) [choose 2 of the following]:

- SPA 3261 Language Science for CSD  3
- SPA 3004 Introduction to Language Development and Disorders  3
- INT 4490 Introduction to Cued Speech and its Applications  3
- SPA 3470 Culture and Diversity in CSD  3
- SPA 4321 Introduction to Audiologic Rehabilitation  3

Graduation within the ITT major also requires successful completion of a comprehensive practical exit examination (SPA 4962) and successful completion of the Registry of Interpreters for the Deaf (RID) written examination.

Requirements for the Concentration in Deaf Studies (DST)

CIP = 51.0204 (Track 3 of 3)

The DST concentration seeks to educate students to communicate and interact with people who are deaf and to apply this knowledge within work settings where knowledge of deafness and deaf culture is essential. The DST concentration is intended to prepare students to work in a variety of settings (e.g., social services, vocational rehabilitation, education, etc.) with a variety of deaf and hard of hearing individuals utilizing various communication methods, both manual and oral. Coursework is designed to provide students with an opportunity to learn about the language, education, history, and culture of Deaf people in the United States as well as issues that impact the provision of services to this population.
The program requires a minimum of 41 credit hours, comprised of:
1. 12 credits in foundational coursework,
2. 11 credits in American Sign Language proficiency coursework, and
3. A minimum of 18 credits of elective coursework, 9 of which must come from a single elective area.

Prerequisites (State Mandated Common Prerequisites) for Students transferring from a Florida College System Institution:
There are no State Mandated Common Prerequisites for this degree program.

The following courses are required for the major:

**Required Courses (23 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 4321</td>
<td>Introduction to Audiologic Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>ASL 2140C</td>
<td>Basic American Sign Language</td>
<td>4</td>
</tr>
<tr>
<td>ASL 3514</td>
<td>American Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>ASL 2150C</td>
<td>Intermediate Sign Language</td>
<td>4</td>
</tr>
<tr>
<td>SPA 3470</td>
<td>Culture and Diversity in CSD</td>
<td>3</td>
</tr>
<tr>
<td>ASL 4161C</td>
<td>Advanced American Sign Language</td>
<td>3</td>
</tr>
<tr>
<td>INT 3004</td>
<td>Fundamentals of Interpreting</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Major Elective Courses (18 credits)**
A minimum of 18 hours are required, with at least 9 credits from the same area:

- **Area 1: Social Services Perspective**
  - CCJ 3024, GEY 3625, MHS 3411, RCS 4033, SOW 3210

- **Area 2: Oral/Aural Communication**
  - SPA 3004, SPA 3261, SPA 3002, SPA 3010, SPA 3310, SPA 3112

- **Area 3: Manual/Visual Communication**
  - INT 4490, ASL 4201C, ASL 4301C, INT 3270, ASL 3324

**Information for Students Transferring from a Florida College System Institution**

Students entering the university with fewer than 60 semester hours of acceptable credit must meet the University's entering freshman requirements including ACT and SAT test scores, GPA, and course requirements. Students intending to transfer to USF should complete an A.A. degree at the community college. Some courses required for the major may also meet the USF General Education Requirements. Transfer students must comply with the immunization, foreign language, and continuous enrollment policies of the University.

**Honors Program**

The purpose of the Communication Sciences and Disorders (CSD) Senior Honors Program is to provide outstanding undergraduates with exposure to the variety of research in communication sciences and disorders and more direct contact with faculty mentors in the department. The Senior Honors Program will provide students with an introduction to aspects of the field beyond the traditional undergraduate curriculum. Students apply for the honors program during the spring of their junior year and complete the honors course and thesis during their senior year. Participation in the departmental honors program is limited and competitive.

**Minimum requirements for admission:**

- Completion of 18 credit hours within the Communication Sciences and Disorders curriculum with at least a 3.50 GPA in these courses.
- Completion of at least 60 hours of college and/or university coursework with at least a 3.25 GPA.

**Requirements to graduate from the CSD Senior Honors Program:**

- Completion of three (3) credits of Honors Colloquia (SPA 4901 Research, Clinical and Professional Issues in CSD) in the fall with a grade of B or better. This course can be used as an elective course in the major.
- Satisfactory completion of three (3) credits of Honors Thesis (SPA 4970) in the spring. The thesis project may involve conducting or assisting with research or clinical project, developing teaching or clinical materials, or any other specialized activity involving a faculty mentor. The honors thesis is additional work above and beyond the usual work completed for the undergraduate degree in LSH. However, credits for the Honors Thesis course do count toward the overall credit requirement of 120 for an undergraduate degree.
Requirements for the Minor in American Sign Language (ASL)

Required courses (17 credits):
- ASL 2140C Basic American Sign Language
- ASL 2150C Intermediate American Sign Language
- ASL 4161C Advanced American Sign Language
- ASL 3514 American Deaf Culture
- ASL 4201C American Sign Language IV

Students seeking a minor in ASL must complete a minimum of three (3) courses within the minor with the Department of Communication Sciences and Disorders at USF. A min. grade of C- is required for each course and a cumulative GPA of 2.00 or better must be achieved in minor coursework in order for a student to be certified for graduation with a minor in American Sign Language.

Communication Sciences and Disorders Faculty

• CRIMINOLOGY (CCJ) (CIP = 45.0401)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

The major in Criminology provides students with in-depth exposure to all facets of the criminal justice system including law enforcement, detention, the judiciary, corrections, juvenile justice and probation and parole. The program concentrates on achieving balance in the above aspects of the system from the perspective of the criminal justice professional, the offender, and society. The program provides a solid background in the theory, issues and methodology comprising Criminology.

The objective of the undergraduate program in Criminology is to develop a sound educational basis either for graduate work or for professional training in one or more of the specialized areas comprising the modern urban criminal justice system.

Prerequisites (State Mandated Common Prerequisites) for Students transferring from a Florida College System Institution:
There are no State Mandated Common Prerequisites for this degree program.

Requirements for the Major in Criminology (B.A.)

A minimum of 36 semester hours is required of all undergraduate majors in Criminology including:

1. Four core courses (12 hours):
   - CCJ 3024 3
   - CCJ 3117 3 Note: A grade of C (not C-) or higher is required in CCJ 3117 to enroll in CCJ 3701.
   - CCJ 3701 3 Note: A grade of C (not C-) or higher is required in CCJ 3701 to enroll in CCJ 4934.
   - CCJ 4934 3

2. 24 semester hours of electives within Criminology.

Students who plan to attend graduate school should also take CCJ 4700 as one of their electives within the major. Students must complete CCJ 3117 with a grade of C or better (not C-) prior to enrollment in CCJ 3701. Students must complete CCJ 3701 with a grade of C or better (not C-) prior to enrollment in CCJ 4934.

NOTE: No more than six (6) hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours in the major. A student may take an unlimited number of CCJ 4933 or 4934 courses as long as the courses vary in title.

“D” Rule

Criminology majors are limited to one grade of “D+” or lower in their major coursework. Any student who receives a grade of “D+” or lower in more than one USF Criminology major course will either need to utilize grade forgiveness in order to comply with the rule or seek major reselection. Future registration in Criminology major courses will be restricted for students who are not in compliance with the “D” rule. If a student has exhausted all available grade forgiveness opportunities and remains in non-compliance with the “D” rule, the student will be required to seek major reselection.
**Information for Students Transferring from a Florida College System Institution**

Students desiring to transfer to USF should complete the A.A. degree at a Florida College System institution. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Transfer students should be aware that by university regulation they are obligated to establish academic residency by completing the equivalent of one academic year (30 semester hours) in “on-campus” courses. In addition, all undergraduate transfer students electing Criminology as their major will be required to take a minimum of 30 credit hours in major coursework at the University of South Florida. This residency requirement is designed to ensure that transfer students who subsequently receive their baccalaureate degree from the University of South Florida will have been exposed to the same body of knowledge in their major as those students who complete all or a major portion of their coursework at the University of South Florida. Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

**Requirements for the Minor in Criminology (CCJ)**

A minimum of 18 hours is required for the Criminology including:

1. Two required courses:
   - CCJ 3024 3
   - CCJ 3117 3

2. 12 semester hours of electives within Criminology.

Note: With the exception of CCJ 3024 and CCJ 3014, students should seek academic advisor approval to register for Criminology courses each semester by emailing the USF student ID number and course reference number(s) to the advising office. A minimum of 9 semester hours of minor coursework must be completed at USF. Students minoring in Criminology are also subject to the Department’s “D” Rule.

**Criminology Faculty**


**SCHOOL OF AGING STUDIES**

Gerontology is the study of the process of human aging in all its many aspects: physical, psychological, and social. In the School of Aging Studies, the academic home of the gerontology programs, particular emphasis is placed upon applied gerontology, with the goal of educating students who in their professional careers will work to sustain or improve the quality of life of older persons. Because Gerontology is an interdisciplinary field, dual majors with other departments are encouraged. The School of Aging Studies offers the degrees of Bachelor of Arts in Gerontology, Bachelor of Science in Long Term Care Administration, a minor in Gerontology, and Master of Arts in Gerontology. The School of Aging Studies also hosts the university-wide Ph.D. in Aging Studies, and offers 3 graduate certificates in Gerontology. Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

- **GERONTOLOGY (GEY) (CIP=30.1101)**
  
  **TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

  **Requirements for the Major in Gerontology (B.A.)**

  The Bachelor of Arts Degree in Gerontology entails 36 semester hours of required coursework. In this program the course of study is intended to provide students with a liberal education in gerontology and some exposure to the various career opportunities in the field of aging. This degree is especially appropriate for students who plan to pursue graduate or professional work in gerontology, allied health or a related field, or who plan to work with older adults in careers such as case management, social services, or activity therapy.
Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution:

The State of Florida has identified common course prerequisites for the Bachelor’s degree in Gerontology. Those students seeking the major, complete STA X122 (Social Science Statistics) at the lower level prior to entering the university. If this course is not taken at the community college, it must be completed before the degree is granted. The following course must be completed with a grade of C or better (not C-):

STA X122 (Social Science Statistics) (Acceptable substitutes for STA X122 are: QMB X150 or QMB X100, STA X022, X014, X040, X023, or X024.)

A grade of lower than "C-" in Gerontology courses will not be counted toward fulfilling the requirements for the major.

Required Major Courses:

- GEY 2000 Introduction to Gerontology 3
- GEY 3601 Physical Changes and Aging 3
- GEY 3625 Sociological Aspects of Aging 3
- GEY 4401 Research Methods in Gerontology 3
- GEY 4612 Psychology of Aging 3
- Required Capstone Experience Course* - Students will choose one: 3
  - GEY 4945 Field Placement
  - GEY 4690 Senior Seminar in Gerontology
  - GEY 4917 Directed Research

B.A. students complete 18 additional elective hours, which may include additional field placement. Students should meet frequently with the departmental advisor to plan courses and field work that will prepare the student for their career goals.

*These courses are School capstone experience course and do not qualify to meet the FKL capstone exit requirement.

LONG TERM CARE ADMINISTRATION (LTC) (CIP=51.0701)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Requirements for the Major in Long Term Care Administration (B.S.)

The Bachelor of Science Degree in Long Term Care Administration is a 39 semester hour specialist degree which, in addition to providing students with a basic education in gerontology, allows graduates of the program to sit for the licensure examination to become Nursing Home Administrators. It is especially appropriate for students who intend to begin working immediately following completion of the degree program.

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution:

Those students seeking the Bachelor’s degree in Long Term Care Administration should complete the prerequisite courses listed below. Unless stated otherwise, a grade of "C" (not C-) is the minimum acceptable grade.

- ACG X021 Principles of Financial Accounting or ACG X024 or ACG X001 and ACG X011
- ACG X071 Principles of Managerial Accounting or ACG X301
- ECO 2023 Economic Principles (Microeconomics)
- CSG X100 Computers in Business or CGS X061 or ISM X000
- STA 2023 Introductory Statistics

A grade of lower than "C-" in Gerontology courses will not be counted toward fulfilling the requirements for the major.

Strongly Recommended Courses:

- GEY 2000 Introduction to Gerontology 3
- MAN 3025 Principles of Management 3

Required Major Courses:

- GEY 3601 Physical Changes and Aging 3
- GEY 4507 Understanding Policies and Practices of Long Term Care 3
- GEY 4508 Health Care Operations 3
- GEY 4509 Regulatory and Clinical Operations 3
- GEY 4608 Alzheimer’s Disease Management 3
- GEY 4641 Death and Dying 3
- GEY 4475 Program Evaluation in an Aging Society 3
GEY 4520 Legal Aspects of Health Care Administration 3
GEY 4945 Field Placement 9
MAN 3301 Human Resource Management 3
ISM 3011 Information Systems in Organizations 3

Recommended Electives:
GEY 3625 Sociological Aspects 3
GEY 4360 Gerontological Counseling 3
GEY 4628 Race, Ethnicity and Aging 3
MAR 3023 Basic Marketing 3
BUL 3320 Law and Business 3
MAN 3240 Organizational Behavior Analysis 3

Students in the B.S. program will only be allowed to register for the full-time internship (GEY 4945) after successful completion of all (or all but one) of the required courses in the B.S. major. Because the B.S. internship requires full-time effort, students will be allowed to take no more than four (4) credits concurrent with the B.S. internship. NOTE: a Level 2 background check is required for most Field Placements, possibly at the student's expense.

Students interested in either the Gerontology or Long Term Care Administration majors should contact the School of Aging Studies http://agingstudies.cbcs.usf.edu/advising/ as early as possible in their careers at the University of South Florida.

Requirements for the Minor in Gerontology (GEY)
An undergraduate minor is available for students interested in pursuing gerontology careers in conjunction with any undergraduate major, but it should be particularly beneficial to persons majoring in such disciplines as anthropology, business, communication sciences and disorders, government and international affairs, nursing, psychology, health care, social work, and sociology. Requirements for the minor in Gerontology total 15 hours of the following courses (and a min. overall 2.0 GPA in minor coursework):

Required:
GEY 2000 Introduction to Gerontology 3

Choose 2 of the following 3 courses:
GEY 3601 Physical Changes and Aging 3
GEY 3625 Sociological Aspects of Aging 3
GEY 4612 Psychology of Aging 3

Electives:
Six additional GEY credit hours 6

Aging Studies Faculty

• SOCIAL WORK (SOK) (CIP = 44.0701)
Total Program Hours = 120 Credit Hours
The University of South Florida offers a program of study leading to a Bachelor of Social Work (B.S.W.) degree in the School of Social Work, College of Behavioral & Community Sciences. The B.S.W. has been developed in accordance with the guidelines of the Council on Social Work Education, the national accrediting body for social work education programs, and in accordance with the recommendations of the National Association of Social Workers. The B.S.W. program is fully accredited by the Council on Social Work Education and is a limited access program.

The primary objective of the B.S.W. program is the preparation of the graduate for beginning level professional practice as a social work generalist.

The secondary objectives of the B.S.W. program are to:
1. Provide for the social work human resources needs of the university service district (the central Florida west coast area), the State of Florida, and the Southeast Region;
2. Prepare graduates for additional professional training at the graduate level in social work or in related human service professions;
3. Provide an exposure to social work as a profession and to contemporary issues in the social welfare field.
In preparing the B.S.W. graduate for beginning professional practice, the curriculum provides students with an opportunity to develop a knowledge base and skill base as a "generalist" practitioner. Students will develop an understanding of various methods of intervention and skills in their application to a variety of client systems. For example, intervention methods may take the form of individual and group counseling, resource development, consultation, teaching, advocacy, etc. Client systems may be individuals, families, groups, organizations, or communities. The student will develop an understanding of the dynamics of human behavior in individual, group and organizational contexts and the influences of the socio-cultural environment upon those behaviors. The student will learn about the development of social welfare systems and institutions and the social, economic, and political processes affecting policy development and program implementation. The student will develop an understanding of the utilization of basic social research skills particularly related to the processes of problem-solving, planning, and evaluation.

The student will also become aware of the value base of the profession and engage in a self-examination process as it relates to the development and reflection of ethical and effective professional practice. The B.S.W. program places great emphasis on the development of a professionally responsible graduate in terms of one's obligations to the client system served, the profession itself, the organization in which one works, and to the general public which ultimately provides any profession with legitimacy.

Admission Requirements

- The Social Work Program is a limited access program that requires a separate application to the School of Social Work. Students are admitted to the undergraduate program only in the Fall and Spring terms and slots are limited.
- Admission to the University and a minimum USF/Overall GPA of 2.75.
- Completion of 15 semester hours of common program prerequisites with min. “C” grade in each course (see below).
- Complete a formal application to the BSW Program during the first semester of coursework (SOW 3210 and SOW 3303) in the major. (Consideration in the admissions process includes GPA, letters of reference, essay, and volunteer/paid work related to Social Work and is a competitive process.) The deadlines for applications are October 15th and July 1st of each year.
- There is a maximum of 2 semester application reviews for admission to the BSW program.

Minimum Grade Requirements

SOW 3303 Introduction to Social Work and SOW 3210 The American Social Welfare System require a minimum grade of “B” for major credit (a grade of “B-” is not acceptable). SOW 3303 and SOW 3210 may only be attempted once for major credit (Exceptions may considered by department for extenuating circumstances.)

Students must also maintain a minimum GPA of 2.75 in core courses in the major while enrolled in the program and demonstrate behaviors that are congruent with professional standards and values as described previously in order to remain in the major.

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution:

A transfer student must successfully complete the following courses, by earning a “C” or better. A grade of “C-” is not acceptable as a passing grade.

One course in each of the following cognate areas:

- POS X041 or POS X042 or PUP X099 American Government
- BSC X005 or BSC X085 or BSC X010 or PCB X099 Human Biology
- ECO X000 or ECO X023 Economics
- PSY X012 or PSY X020 Psychology
- SYG X000 or SYG X010 Sociology

Requirements for the Major in Social Work

Prerequisites

Students must successfully complete the following courses, by earning a “C” or better. A grade of “C-” is not acceptable as a passing grade. (Incoming transfer students may refer to “State Mandated Common Prerequisites for Students Transferring from a Florida College System Institution” section for clarification of acceptable transfer courses.)

One course in each of the following cognate areas:

- American Government: POS 2041 American National Government
- Human Biology: BSC 1005 Biology for Life or BSC 1020 Human Biology or BSC 2085 Anatomy & Physiology
- Economics: ECO 1000 Basic Economics or ECO 2023 Microeconomics or ECO 2013 Macroeconomics
- Psychology: PSY 2012 Introduction to Psychological Science
- Sociology: SYG 2000 Introductory Sociology or SYG 2010 Contemporary Social Problems
Social Work Foundation Courses (6 semester hours)
These courses should be taken during the student’s first semester of coursework in the major; these are the only courses in the major open to all students.

- SOW 3210 American Social Welfare System 3
- SOW 3303 Introduction to Social Work 3

SOW 3303 Introduction to Social Work and SOW 3210 American Social Welfare must be taken at USF or another accredited institution and must be completed, earning a grade of “B” or better. A grade of “B-” is not acceptable as a passing grade for either course.

Social Work Core Courses (38 semester hours)
These courses are only open to fully admitted BSW students.

1. Human Behavior and Social Environment Courses
   - SOW 3101 4
   - SOW 3102 3
   - SOW 4522 3

2. Social Welfare: Policy & Program Course
   - SOW 4233 3

3. Social Research Course
   - SOW 3401 3

4. Social Work Practice Courses
   - SOW 4341 5
   - SOW 4343 5
   - SOW 4930 3

5. Field Experience
   - SOW 4510 3
   - SOW 4510L 6

Summary of Major Requirements:
- Foundation Courses: 6 hours
- Core Courses: 29 hours
- Field Experience: 9 hours
- TOTAL: 44 hours

Information for Transfer Students
Social Work is a limited access program. Students intending to transfer to USF may complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Social Work Faculty
Director: B. Yegidis; Director of Field Program: T. Simpson; Professor: W. Rowe; Associate Professors: R. Ersing, I. Carrion, S. Fogel, L. Rapp-Paglicti, A. Strozier; Assistant Professors: J. Carrion, M. Joshi, D Konrad, N.S. Park, G. Rahill, A. Salloum; Instructor: R. Tilden; Visiting Faculty: L. Rogovin, A. Stintson; Coordinator IVE: L. Conforti-Brown.

Department of Mental Health Law & Policy
The Department of Mental Health Law and Policy has a longstanding commitment to excellence in pursuit of our legislative mission to conduct behavioral health research, and in teaching, training, policy development, and service. In each of these areas we embrace a multidisciplinary problem-solving approach to address the complex issues at the intersection of behavioral health services and the justice system. Our work is accomplished through strategic partnerships with local, state, and federal agencies to help guide research design, implementation, dissemination, and translation to practical solutions.
Behavioral Healthcare (BHC) (CIP = 44.0000)
TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Behavioral health problems, such as mental illness and substance abuse, are among the greatest public health challenges facing our communities. New, scientifically-based approaches are available to treat and prevent many behavioral health problems. Students will be exposed to treatment approaches as well as to issues in the organization, financing, delivery, and outcomes of behavioral health services. The emphasis of the curricula is on practices that have been scientifically validated and the delivery of services within the context of current funding, policies and trends.

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution:
It is strongly recommended that those students seeking the Bachelor’s degree in Behavioral Healthcare complete prerequisites at the lower level prior to entering the university. (These courses may also be used to fulfill FKL requirements for entering freshmen.) The state mandated common course prerequisites must be completed with a minimum grade of C (not C-) or better.

- PSY X012  Introduction to Psychological Science
- STA XXXX  Any level Statistics course or PSY X204 Psychological Statistics
- SYG X000  Introduction to Sociology or SYG X010 Contemporary Social Problems

Requirements for the Major in Behavioral Healthcare (B.S.)
A grade of lower than “C-” in Behavioral Health major courses will not be counted toward fulfilling the requirements for the major; MHS 3411 requires a min. grade of “B-”. Students must maintain a minimum cumulative GPA of 2.50 in major coursework while enrolled in the program. Students falling below the 2.50 GPA requirement will be allowed no more than one semester to improve their GPA to the threshold. Students must also demonstrate behaviors that are congruent with the professional standards and values of the profession. Students desiring a career in this field should be aware that fingerprinting, a background check, and drug screen may be required to work in this field. Failure to pass one of these checks would be cause to terminate a student from the major. Students may be responsible for any associated costs.

Required Major Courses [22 semester hours]:

- MHS 3411  Multidisciplinary Behavioral Healthcare*  3
- PSY 3213  Research Methods in Psychology (or equivalent with Department approval)  4
- MHS 4022  Adult Psychopathology in the Community  4
- MHS 4023  Recovery-Oriented Mental Health Services  3
- MHS 4425  Field Experience in Behavioral Healthcare  3
- MHS 4703  Legal, Ethical & Professional Issues in BHC  3
- MHS 4408  Exemplary Practices in Behavioral Healthcare Treatment  3
- MHS 4002  Behavioral Health Systems Delivery  3
- MHS 4452  Co-occurring Disorders  3
- RCS 4033  Overview of Rehabilitation and Mental Health Counseling Professions  3
- CLP 4414  Behavior Modification (or equivalent with Department approval)  3
- MHS 4023  Recovery-Oriented Mental Health Services  3
- MHS 4425  Field Experience in Behavioral Healthcare  3

*MHS 3411 should be taken during student’s first semester of major coursework; a minimum grade of “B-“ is required.

Concentrations:
(Students must choose at least one of the following concentrations [15 semester hours]) *If a student chooses to pursue more than one concentration, no courses may overlap. (An academic advisor can clarify what substitutions are acceptable if a course overlaps between more than one concentration.)

Concentration #1-Adult Community Services (ACS)
Students interested in direct employment or preparation for graduate training will find this concentration geared to the provision of evidence based services with adults who are receiving services in the behavioral healthcare system. This concentration will assist students who desire to become certified as a 1) Certified Addictions Professional, 2) Certified Behavioral Health Technician, 3) Certified Mental Health Professional, 4) Certified Prevention Specialist, 5) Recovery Peer Specialist, or 6) Recovery Support Specialist.

- RCS 4033  Overview of Rehabilitation and Mental Health Counseling Professions  3
- CLP 4414  Behavior Modification (or equivalent with Department approval)  3
- MHS 4023  Recovery-Oriented Mental Health Services  3
- MHS 4425  Field Experience in Behavioral Healthcare  3

Concentration #2-Behavioral Health Research (BHR)
This concentration will prepare students for graduate school and research careers in the field of behavioral
healthcare. Building on lower level courses in statistics and research methods, the research concentration will enhance student’s knowledge and skills for conducting scientific research in the field of behavioral healthcare.

IDS 1505 Introduction to Research 1
MHS 4741 Advanced Research Methods: Behav/Community Sciences 3
MHS 4912 Independent Research in Behavioral Health 5
MHS 4731 Writing for Research and Publication in BCS 3

Plus Department approved elective [consult with advisor for options] 3

Concentration #3-Applied Behavior Analysis (ABA)
Service delivery to individuals with developmental disabilities, Autism spectrum disorders, and other behaviors that may limit functioning is addressed with very specific behavioral techniques. This concentration is appropriate for individuals desiring certification in the field or as a complement to other service delivery strategies.

MHS 3204 Fundamentals of Applied Behavior Analysis CLP 4414 Behavior Modification 3
MHS 4202 Behavior Assessment & Intervention Planning 3
MHS 4206 Applied Behavior Analysis in Autism and Developmental Disabilities 3
MHS 4412 Research Methods and Ethical Issues in Behavior Analysis 3
MHS 4943 Practicum Seminar in Applied Behavior Analysis 3

Concentration #4-Children’s Mental Health (CMH)

RCS 4033 Overview of Rehabilitation and Mental Health Counseling Professions 3
MHS 3204 Fundamentals of Applied Behavior Analysis or CLP 4414 Behavior Modification 3
or equivalent with department approval
MHS 4434 Behavioral Health and the Family 3
MHS 4203 Practical Skills: Children’s Behavioral Healthcare 3
MHS 4425 Field Experience in Behavioral Healthcare 3

Behavioral Healthcare Minor (BHC)
The minor in Behavioral Healthcare is available to students interested in pursuing a career in the field of behavioral health in conjunction with any undergraduate major. It should be particularly beneficial to persons majoring in disciplines such as psychology, social work, sociology, anthropology, gerontology, long term care administration, pre-med, criminology, and nursing.

A GPA of 2.00, or better in this minor is required for completion. At least nine (9) credit hours must be taken at USF. A Behavioral Healthcare advisor is available to guide students on course selection and to coordinate the minor with related majors.

The Minor in Behavioral Healthcare consists of a minimum of fifteen (15) credit hours comprised of the following courses:

Required Courses:
MHS 3411 Multidisciplinary Behavioral Healthcare Services 3
MHS 4002 Behavioral Health Systems Delivery 3
MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment 3
MHS 4425 Field Experience in Behavioral Healthcare* 3

Electives (minimum of 3 credit hours required):
MHS 4XXX Behavioral Healthcare Elective (consult with an academic advisor) 3

A student completing a field placement in Psychology, Social Work, or other human services discipline may be exempted (by the advisor) from MHS 4425 and may substitute an approved elective. Enrollment in MHS 4425 requires prior approval by the Behavioral Healthcare department.

Other Behavioral Healthcare Options
A concentration in Behavioral Healthcare is offered through the Bachelor of Science in Applied Science (BSAS) degree program as well as the Bachelor of General Studies (BGS). The concentration requires 24 credit hours. Please see the B.S. in Applied Science at http://www.ugs.usf.edu/academic/bsas.htm and BGS at http://www.usf4you.usf.edu/programs/bachelorsBGS.asp for additional information.

A cognate in Behavioral Healthcare is also available through the Interdisciplinary Social Sciences (ISS) major, which is housed within the College of Arts & Sciences. MHC 4425 is not required to complete the cognate for the ISS major.
Mental Health, Law & Policy Faculty

Department of Child & Family Studies
The Department of Child and Family Studies (CFS) is committed to improving the well-being of individuals, children, and families within communities across the country through promoting respect, inclusion, development, achievement, mental health, and an optimum quality of life. CFS is a department within the College of Behavioral and Community Sciences. CFS offers an undergraduate minor in Applied Behavior Analysis (ABA) as well as a master’s program and doctoral program in ABA.

Applied Behavior Analysis Minor
The Department of Child and Family Studies in the College of Behavioral & Community Sciences offers a sequence of courses to serve as an undergraduate minor in Applied Behavior Analysis (ABA). This minor is for students seeking knowledge and skills in the field and is especially valuable for those seeking to become a Board Certified Assistant Behavior Analyst (BCaBA) or those seeking to prepare for a graduate program in ABA. The ABA minor is open to all students.

A GPA of 2.00, or better in this minor is required for completion. At least nine (9) credit hours must be taken at USF. Students may contact an advisor at 813 974 3096 or aneal@usf.edu.

The Minor in Applied Behavior Analysis consists of fifteen (15) credit hours comprised of the following courses (1 elective and 4 required courses):

**Elective** (choose one of these 3 credit hour courses; the elective is a prerequisite for the required courses):
- MHS 3204 Fundamentals of Applied Behavior Analysis 3
- CLP 4414 Behavior Modification 3
- EEX 4204 Positive Behavior Support 3

Or an equivalent course in Applied Behavior Analysis (approved by program director)

**Required Courses:**
- MHS 4202 Behavioral Assessment and Intervention Planning in ABA 3
- MHS 4412 Research Methods and Ethical Issues in Behavior Analysis 3
- MHS 4206 Applied Behavior Analysis in Autism and Developmental Disabilities 3
- MHS 4943 Practicum Seminar in Applied Behavior Analysis 3

Applied Behavior Analysis Faculty
The College of Business offers courses of study leading to both undergraduate and graduate degrees. All degree programs in the College of Business are fully accredited by AACSB International — The Association to Advance Collegiate Schools of Business.

The undergraduate curriculum that leads to a Bachelor of Arts or Bachelor of Science degree in Business Administration is composed of several segments: (1) broad general education in the arts, humanities and sciences; (2) the common body of knowledge for management responsibilities; and (3) specialized majors in Accounting, Advertising, Economics, Finance, General Business, International Business, Management, Management Information Systems, and Marketing. Through flexibility in its requirements, the College is able to satisfy the different interests and career objectives of students with diverse backgrounds. Graduate programs in the College are described in the USF Graduate Catalog.

The College of Business is located near the corner of Maple Street and Alumni Drive on the south-central side of campus. To access information about the College online, use the following web address: http://business.usf.edu/.

**Undergraduate Admission to the College**

Admission to the College of Business is based upon availability of faculty and space within each discipline. The College is an upper-level, limited access college, which means that it has admission requirements in addition to those of the University in general. Students interested in pursuing a degree in the areas offered by the College of Business must complete the required prerequisites for entering the College in addition to other related criteria listed in 1-3 below.

**Requirements for Admission to the College of Business**

1. Students must satisfy the following criteria:
   a. Minimum of 60 semester hours of college credit earned.
   b. Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: http://business.usf.edu/programs/undergraduate/admission.asp.
   c. Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:
      * ACG X021/ACG X022 Financial Accounting (or ACG X001 & ACG X011)
      * ACG X071 Managerial Accounting (or X301)
      CGS X100¹ Computers in Business (or acceptable Substitute, i.e., CGS X100C, CGS X530, CGS X570, CGS X531, CGS X0000, MAN X812)
      ECO X013 Principles of Macroeconomics
      ECO X023 Principles of Microeconomics
      MAC X233 Elementary Calculus or MAC 2230
      STA X023 Introductory Statistics or QMB X100 or STAX122 although STA X023 and QMB X100 are preferred).
      * accounting majors must earn a C not C- in ACG 2021 & 2071
      ¹or demonstrated competency.
   d. In computing entry grade point average all business and economics courses taken for S or U grades will be converted to C or F, respectively.

2. A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.

3. Students must be admitted to the College of Business at least one term before their anticipated graduation date.

**Computer Requirement**

All students entering the College of Business are required to have a laptop computer that they can use in their classes and labs. The laptop computer must be capable of connecting to the internet wirelessly and accessing software applications through a central server.

**Transfer Students**

Transfer credits will be accepted from accredited institutions; however, all hours earned may not be applied toward USF business degree requirements. Individual courses will be evaluated by an academic advisor and appropriately credited toward requirements in the student’s program at USF.

Florida public junior/community college students enrolled in an Associate of Arts (AA) program should normally complete the general education requirements and the State Mandated Common Prerequisites at a Florida College System institution. As a rule, AA students should avoid taking any business courses at the junior/community college that are listed as 3000- and 4000-level courses at USF. Normally, courses in finance, marketing, management, and
accounting, as well as other business administration and economics courses, taken at the lower division level that are offered as upper division courses at USF will not be accepted for upper division credit in business administration or economics. In general, business courses taken at the lower level, at technical schools, or as part of professional or military training, are not applicable to the degree programs of the College of Business. Exceptions to this policy will be made only upon proper validation of such courses. Validation consists of successfully completing specified advanced courses in the discipline.

Florida College System students pursuing an Associate of Science (AS) program in Business Administration are fully admissible to USF. Please see a business advisor to determine the articulation courses, discuss admission to the College of Business and prepare a program plan for degree completion. Students transferring to the College of Business with an A.S. in Business Administration may earn a major in General Business Administration only.

Florida College System students pursuing an Associate of Science (AS) program in any other discipline should contact the Director of the BSAS program in the Office of Undergraduate Studies, SVC 2003, (813) 974-4051, for information regarding course transferability and degree articulation.

Early Admissions, Living-Learning Community, Honors Program

Early Admissions Program – The Bulls Business Network

Membership in the Bulls Business Network (BBN) is open to first time in college students who have completed a USF application and declared an intent to major in business. Select freshmen are admitted directly to the College of Business upon admission to USF (while most students are fully admitted to the business college after two years of general course requirements). BBN members are eligible to live in the Bulls Business Community, a residential program described in the following section. BBN students have the opportunity to avoid mass lecture classes as smaller sections of core business classes are reserved exclusively for BBN members (availability is limited and determined by academic performance each semester). Students in the BBN may apply for special business scholarships as well as join business student organizations normally restricted only to juniors and seniors. For admission criteria visit http://business.usf.edu/student/bbc/index.asp.

Living-Learning Community - The Bulls Business Community

Most freshmen are required to live on campus for the first year. As part of the Bulls Business Network, students are eligible to apply to the business-themed living learning community, the Bulls Business Community (BBC). Here, students are offered very different programming opportunities. An exclusive academic advisor and graduate assistant aid students as they navigate the university and the college. Dinners with the dean, meetings with CEO’s of various Tampa Bay businesses, improv sessions, study abroad opportunities, company tours and etiquette dinners are just a few of the beyond the books experiences provided to the 105 business students living on one floor in Juniper-Poplar Hall. In addition, all BBC students have the opportunity to apply to the Honors Program in Business. For further information about the BBC, please visit http://business.usf.edu/student/bbc/index.asp.

The Honors Program in Business

Exclusively for our best and most motivated students, this highly-selective program is designed to assist, accelerate and ensure the growth and development of our future leaders in academia and business. Business honors students will learn from USF’s best business research faculty, blending smaller classes, rigorous coursework and research efforts with unique applied learning opportunities.

To graduate from the Honors Program in Business, students must fulfill all program requirements listed below:

• Sign and abide by the program’s Honor Pledge
• Live in the Bulls Business Community for two years
• Facilitate a service-learning project within a Business Honor’s cohort
• Participate in a study abroad experience with a Business Honor’s cohort
• Participate in at least one meaningful internship
• Complete all requirements for an honor’s thesis
• Maintain a 3.40 overall GPA

Upon completion of the requirements above, students will be identified at graduation and the statement “Business Honors Program” will be placed on the diploma and transcript.

Students should apply as seniors in high school. Alternatively, students may also apply after completion of their freshmen year in college from USF or outside USF. Students who complete an associate’s degree are also eligible for consideration into this program. For further information, please contact the program director, Dr. Joni Jones at jonijones@usf.edu.
BACCALAUREATE LEVEL DEGREE PROGRAMS

General Requirements for B.A./B.S. Degrees in Administration Business

Students must satisfactorily complete a minimum of 120 semester hours. Of the minimum 120, at least 60 hours must be business courses, and a minimum of 54 hours must be non-business courses (i.e., all courses not normally offered in the College of Business). Additional electives may be required to reach a minimum of 120 hours and can be either business or non-business. NOTE: Beginning Fall 2013 the College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through CANVAS and updated at the following link: http://business.usf.edu/programs/undergraduate/admission.asp.

As a part of the 120-hour requirements for the B.A. or B.S. degree, the following criteria also apply:

**GPA:** A minimum grade-point average of 2.0 must be achieved in the following areas:
- The major and minor fields
- College foundation courses
- All USF coursework
- Overall GPA (USF and all transfer work)

**Gordon Rule:** Students must have satisfactorily completed the writing and computation course requirements of the Board of Governor's Regulation 6.107 ("Gordon Rule").

**Foreign Language:** For a Bachelor of Arts degree, students must demonstrate competency in a foreign language (refer to the Academic Policies and Procedures section of this catalog). The College of Business does not approve American Sign Language for the Foreign Language Exit Requirement.

**Residency:** College of Business residency requirements for graduation exceed the minimum requirements established for USF. Students are required to complete satisfactorily at USF-Tampa a minimum of 50 percent (30-33 semester hours depending on major) of required business courses, including 12-18 semester hours in the major field. In addition, USF COB students must meet COB residence requirements from the degree granting campus. Normally, independent study and independent research courses do not fulfill this requirement.

**International Course Requirement:** All business students are required to select at least one course that deals with contemporary international topics. This course can be included in the business, non-business, or elective category. Consult with a business advisor for approved courses.

**No S/U courses in major or minor:** All courses in the major or minor field and all foundation coursework in business must be taken on a graded basis; the S/U option is not available. Courses are not available for audit.

**Academic Dismissal:** Students dismissed more than once from the USF System for academic reasons will not be readmitted to the College of Business - Tampa.

### Degree Requirements

**NON-BUSINESS (54 hrs. minimum)**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. General Education Requirements*</td>
<td></td>
</tr>
<tr>
<td>a. English Composition</td>
<td>6</td>
</tr>
<tr>
<td>b. Mathematics and Quantitative Reasoning (Calculus is required)</td>
<td>6</td>
</tr>
<tr>
<td>c. Natural Sciences</td>
<td>6</td>
</tr>
<tr>
<td>d. Social and Behavioral Sciences</td>
<td>6</td>
</tr>
<tr>
<td>e. Human Cultural Diversity Global Context</td>
<td>3</td>
</tr>
<tr>
<td>f. Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>g. Humanities</td>
<td>6</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>36</strong></td>
</tr>
<tr>
<td>2. Exit Course Requirements</td>
<td></td>
</tr>
<tr>
<td>a. The Capstone Course</td>
<td>3</td>
</tr>
<tr>
<td>b. The Writing Intensive Course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6</strong></td>
</tr>
<tr>
<td>*See Exit Requirements for more details</td>
<td></td>
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<tr>
<td>3. Speech/Writing Requirements for Business Majors</td>
<td></td>
</tr>
<tr>
<td>a. SPC 2608 Public Speaking or COM 3110 Communication for Business and the Professions</td>
<td>3</td>
</tr>
<tr>
<td>b. ENC 3250 Professional Writing or ENC 3310 Expository Writing or equivalent</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>6</strong></td>
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<tr>
<td>4. Additional elective credits</td>
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</tbody>
</table>

Students may or may not need to take additional hours to meet the minimum of 54 non-business credits (See "Electives" heading below for a suggested course)
Total non-business credit hours 54

BUSINESS (60-66 hrs. minimum):
1. Foundation Courses in Business - Required - a minimum grade of C- in each foundation course with an overall 2.0 GPA:
   * ACG 2021 Principles of Financial Accounting
   * ACG 2071 Principles of Managerial Accounting
   ECO 2013 Economic Principles: Macroeconomics
   ECO 2023 Economic Principles: Microeconomics
   QMB 2100 Business & Economic Statistics I
   BUL 3320 Law and Business I
   FIN 3403 Principles of Finance
   ** ISM 3011 Information Systems in Organizations
   QMB 3200 Business & Economic Statistics II
   MAN 3025 Principles of Management
   *** MAR 3023 Basic Marketing
   GEB 4890 Strategic Management/Decision Making
2. Major Requirements (specific courses for each major are listed in the Departments and Programs” section below.) (18-27 credit hours)
3. Business Electives:
   CGS 2100*
   FIN/MKT majors only
   * Accounting majors must earn C not C- in ACG 2021 & 2071
   ** Information Systems (ISM) majors must earn C not C- in ISM 3011
   *** Advertising and Marketing majors must earn C not C- in MKT 3023

ELECTIVES IN BUSINESS OR NON-BUSINESS
Sufficient elective courses to reach a minimum of 120 hours (ranges from 0-6 credit hours if above requirements are met)
Minimum total hours 120
*Waiver examination administered by the College only may be substituted for CGS 2100. See Advisor for details.

Student Advising and Records
The Office of Undergraduate Advising and Programs (located in Ferguson Hall, BSN 2102) provides the following:
1. Orientation for freshmen and transfer students.
2. Academic advising and program information for:
   a. pre-business students who have applied to the College of Business and declared business as their intended major.
   b. students who meet all College of Business admission requirements.
3. Evaluation of undergraduate transcripts for all declared and admitted business transfer students.
4. Maintenance of academic advising records.
5. Certification of graduation.

Advising Offices
Location: BSN 2102, (813) 974-4290 or schedule an advising appointment on-line: http://business.usf.edu/student/advising/scheduler/schedulerinfo.asp.

Office Hours
8am-6pm Monday-Thursday.
8am-4pm on Fridays.
While the University provides advising services to assist students with academic planning, the responsibility for ensuring that all graduation requirements are met ultimately rests solely with the student.

• GENERAL BUSINESS ADMINISTRATION (GBA) (CIP = 52.0101) (Track 1 of 2)
TOTAL PROGRAM HOURS = 120 CREDIT HOURS
The General Business major provides students with substantial preparation in two functional areas of business and prepares them for positions in a business world that is increasingly interdisciplinary and values cross-functional abilities.

Requirements for the B.A./B.S. Degree
Within the 120-semester-hours program as listed in the Business General Requirement section (including the state
mandated common prerequisites), students must complete two minors from the following business disciplines: accounting, economics, finance, management, management information systems, or marketing. A minimum of 24 hours of upper-level course work must be earned with a GPA of at least 2.0 in each minor. The requirements for each minor are listed with the description of the major. * Minors applied to the General Business major will be referred to as concentrations.

For undergraduate overseas degree programs, the College may offer a set of four international business courses, defined as a concentration in international business, as approved by the curriculum committee.

*One exception:* A minor/concentration in economics must consist of four upper level economics courses, excluding QMB 3200.

Please note: Courses used to satisfy a major in accounting, economics, finance, information systems management or marketing may not be used to satisfy either minor or economics concentration requirement for the GBA major. Courses used in the minors or concentrations for the GBA major cannot be used for a major.

Requirements for a Minor in Business Administration (GBA)
(Non-Business majors only)

Students are required to process an application for the minor in the College of Business. Students must complete an introductory computer course (with content similar to CGS 2100 Computers in Business) or obtain a waiver for this requirement from the College of Business by demonstrating competence in the use of computers.

The course requirements are as follows (21 credit hours):

- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting
- ECO 1000 Basic Economics**
- FIN 3403 Principles of Finance
- MAN 3025 Principles of Management
- MKT 3023 Basic Marketing
- MAN 4802 Entrepreneurship & Small Business Management

A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.

At least 15 hours of the required 21 credit hours must be taken in residence at USF Tampa.

*ACG 3074 can be substituted for ACG 2021 & 2071.
**ECO 2013 & ECO 2023 can be substituted for ECO 1000.

• ACCOUNTING (ACC) (CIP = 52.0301)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

The objective of the baccalaureate degree program in Accountancy is to provide students with accounting and business knowledge that will serve as a basis for careers in industry, government, non-profit organizations and public accountancy. The baccalaureate program also prepares students for entry into the Master of Accountancy (M.Acc.) professional degree program.

The State of Florida requires completion of 120 semester hours to sit for the CPA examination and 150 semester hours are required for licensure.

For additional information regarding becoming a Florida CPA, please visit the following links:

Requirements for the B.A./B.S. Degree

Accounting majors have additional admission requirements beyond the entry requirements to the College of Business as listed in the General Requirements section. The two requirements are:

1. Score at least a 75 percent on the "competency exam" that covers material from ACG 2021 Principles of Financial Accounting and ACG 2071 Principles of Managerial Accounting prior to taking any ACG or TAX course at the 3000-level or higher; and

2. Successful completion of ACG 3103 Intermediate Financial Accounting I, with a minimum grade of C, not C- and no more than two attempts. "W" grades count as an attempt.

A student will be able to take the competency exam a maximum of two times. If a student does not make the minimum 75 percent passing grade within the second attempt, the student will not be allowed to take any 3000-level or higher ACG or TAX course unless he/she retakes ACG 2021 and then passes the competency exam at the minimum specified level of 75 percent. The prerequisites for ACG 3103 require students to earn a grade of C, not C- in both ACG 2021 and ACG 2071. Students who fail to obtain a minimum grade of C (not C-) in ACG 3103 within two attempts will be counseled into other majors either within the College of Business or other colleges, as appropriate. Within the 120-semester-hour program listed in the General Requirements section, students must complete a minimum of 24 hours of
upper-level accounting with a grade of C not C- in all courses. Accounting major courses must be no older than five (5) years to count for degree credit. This applies both to continuing USF accounting majors, as well as accounting major courses transferred in from other institutions. A student could petition the Director for an exception to the policy and the Director may grant or deny such petition, at his/her discretion. Students must complete 18 hours of upper-level Accounting requirements in residency at USF Tampa. Finally, students must earn a 2.0 GPA on all major coursework at USF Tampa and have an overall 2.0 major GPA including any applicable transfer work.

**Required Accounting Courses (18 credit hours):**
- ACG 3103 Intermediate Financial Accounting I
- ACG 3113 Intermediate Financial Accounting II
- ACG 3341 Cost Accounting and Control I
- ACG 3401 Accounting Information Systems
- ACG 4632 Auditing I
- TAX 4001 Concepts of Federal Income Taxation

**Electives (6 credit hours selected from):**
- ACG 4123 Intermediate Financial Accounting III
- ACG 4351 Cost Accounting and Control II
- ACG 4642 Auditing II
- ACG 4931 Selected Topics
- ACG 5205 Advanced Financial Accounting
- ACG 5505 Governmental/Not-for-Profit Accounting
- ACG 5675 Internal and Operational Auditing
- TAX 5015 Federal Taxation of Business Entities

The student’s program must also include coursework taken in behavioral sciences and humanities, such as psychology, anthropology, and sociology, and the political environment of business and society, such as political science, public administration, and ethics. College of Business advisors will recommend courses that will satisfy the program requirements.

Accounting majors can use the forgiveness policy only once in upper-level accounting courses. Accounting courses taken by accounting majors on an S/U basis will not be counted toward the 120-hour graduation requirement. Independent Research, ACG 4911, will not be accepted as credit toward the minimum degree requirements in the accounting concentration.

**Requirements for a Minor in Accounting (ACC) (for Business majors only)**
Students majoring in Business may minor in Accounting. The minor requires 12 credit hours and the requirements are:
- ACG 3103 Intermediate Financial Accounting I
- ACG 3341 Cost Accounting and Control I
- ACG 3401 Accounting Information Systems
- TAX 4001 Concepts of Federal Income Taxation

A grade of C (not C-) or better must be earned in each of the four upper-level Accounting courses taken. A GPA of 2.0 or higher must be achieved in all minor coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used in the minor.

All 12 credit hours must be taken in residence at USF - Tampa.

**Accounting Faculty**

**• ECONOMICS (ECN) (CIP = 52.0601)**
**TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

Economics offers a clear and logical approach to business decision making. The department offers broad course choices allowing students to tailor their programs to provide training for careers in business as well as teaching, government, and law. Students interested in majoring or minoring in economics should contact the Undergraduate Advisor in the Economics Department for more information. Economics offers two majors, one in the College of Arts and Sciences and the other in the College of Business.
Requirements for the B.A./B.S. Degree

Within the 120-semester-hour program as listed in the Business General Requirement section (including the state mandated common prerequisites), students must complete a minimum of 22 hours of upper-level Economics course beyond the foundation courses for Business.

Required Economics Courses (22 credit hours):
- ECO 3101 Intermediate Price Theory
- ECO 3203 Intermediate Macroeconomics
- 15 hours of upper level economics courses
- ECO 4935 Special Topics: Exit Requirement in Economics

1. MAC 2233 Business Calculus or MAC 2311 Calculus 1 (or the equivalent) must be taken as a prerequisite for ECO 3101 and ECO 3203
2. Students cannot take both ECO 3101 and ECP 3703 for credit
3. No more than 3 hours credit can be applied toward a major from ECO 4905 and/or ECO 4914.
4. Students must obtain a grade of “C-” or higher in ECO 3101 Intermediate Price Theory or ECP 3703 Managerial Economics (formerly ECO 3100) to enroll in any course for which ECO 3101 or ECP 3703 is a prerequisite.
5. At least 12 upper level hours must be taken in residence at USF-Tampa.
6. A grade point average of 2.0 or higher must be achieved in all major course work at USF and an overall 2.0 GPA including transfer work. Students must obtain a grade of “C-” or higher in all courses required for the major or minor in Economics.

All students entering USF for the first time, in Fall 2012 or later, who earn 3 (three) D and/or F grades in any of the following courses at USF: ECO 2013, ECO 2023, ECO 3101, ECO 3203, QMB 2100, QMB 3200 and MAC 2233 (or MAC 2311 or equivalent) will be required to change their major to a major more appropriate to their goals and academic performance, and to a major that is not conferred by the Department of Economics through either the College of Arts and Science or the College of Business.

All continuing USF students who entered USF prior to Fall 2012 and who have not earned any D or F grades in any of the following courses at USF: ECO 2013, ECO 2023, ECO 3101, ECO 3203, QMB 2100, QMB 3200 and MAC 2233 (or MAC 2311 or equivalent) by the beginning of Fall 2012, will also be allowed 3 (three) D and/or F grades in those courses before being required to change their major to a major more appropriate to their goals and academic performance, and to a major that is not conferred by the Department of Economics through either the College of Arts and Sciences or the College of Business.

All continuing USF students who entered USF prior to Fall 2012 and who have earned 1 (one) or more D or F grade in any of the following courses at USF: ECO 2013, ECO 2023, ECO 3101, ECO 3203, QMB 2100, QMB 3200 and MAC 2233 (or MAC 2311 or equivalent) by the beginning of Fall 2012, will only be allowed 2 (two) more D and/or F grades in those courses before being required to change their major to a major more appropriate to their goals and academic performance, and to a major that is not conferred by the Department of Economics through either the College of Arts and Science or the College of Business.

Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

Appeals to the required change of major will be handled in the Economics Department and ONLY those students whose appeal is based on exceptional circumstances will be considered.

Advisors in the College of Arts and Sciences or the Transitional Advising Center will be available to assist students in the selection of a new major in their respective colleges.

Requirements for a Minor in Economics (ECN)

All students, regardless of college can earn a minor in Economics by satisfactorily completing 18 hours in Economics.

The requirements are (18 credit hours):
1. ECO 2013 Economic Principles: Macroeconomics
2. ECO 2023 Economic Principles: Microeconomics
3. Upper-level economics electives (may include QMB 3200)

Business majors can obtain a minor with 9 additional upper-level hours in economics beyond the foundation requirements for Business.

Before being recognized as a minor in Economics, a student must obtain program approval from the Economics Department Undergraduate Advisor.

A GPA of 2.0 or higher must be achieved in minor coursework at USF and in all minor courses completed at other institutions. ECO 4905 and ECO 4914 may not be counted toward the minor.

At least nine (9) hours must be taken in residence at USF Tampa.
The Economics Pre Law Curriculum

Economic principles provide the foundation for much of our legal system. Economics offers a series of courses to provide the abstract and applied skills required by those seeking legal careers.


The Economics Pre Law Curriculum fits easily within the Economics major or minor but is open to other students.

Five-Year Bachelor/Master Degree Program

This program allows superior students with strong analytical skills and the ability to handle a fast-paced, challenging program the opportunity to complete both the Bachelor and Master degrees in economics in five years.

The program requires the student to take two graduate-level courses required for the MA degree during the last year in the Bachelor’s program. These 6 hours are counted as general electives (not major electives) in the undergraduate program and are also used to satisfy the requirements for the MA in economics. After completing the 120-hour Bachelor program five-year students take 24 hours at the graduate level.

To be eligible for the program, a student must have completed at least 6 hours of 3000-level or above economics courses at USF (not including statistics), have an overall grade point average of 3.00 or above, and have a minimum of 3.25 cumulative grade point average in all economics courses (including statistics).

To apply for admission, send a letter to the Graduate Program Director in the Department of Economics stating your qualifications and desire to enter the program. To plan your program, or for additional information, see the Undergraduate Advisor in Economics.

• FINANCE (FIN) (CIP = 52.0801)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

The Finance major provides a broad-based, analytical program for students anticipating a career in the management of both large and small organizations. Finance provides a good background for students seeking general careers in business. Finance majors can elect to take courses in the following areas that prepare them for entry and advanced careers in: financial management of corporations, management of financial institutions, investments, financial services, insurance, and real estate.

In addition, the program in Finance is designed to provide the skills required by students earning degrees in other business disciplines and by students who seek professional degrees in areas such as law and public administration.

The Finance program offers courses that enable the graduate to identify and solve problems in the acquisition and allocation of funds by organizations in the public and private sectors in domestic and international settings. It provides the background necessary for managing wealth in a risky environment. Finance relies on an interdisciplinary approach that draws on economic theory, accounting, information systems, and the quantitative decision frameworks of statistics and mathematics.

The major is designed to ensure that graduates are familiar with the tools of financial decision making and that they possess the skills to stay abreast of the developments in the field. Finance graduates will understand the functions and operations of financial markets, become familiar with computer applications in finance, and know how to access and utilize financial information. Course content is designed to provide majors with an appreciation of cooperative work skills and to enhance their verbal and written communication skills.

Requirements for the B.A./B.S. Degree

Within the 120-semester-hour program listed in the Business General Requirement section (including the state mandated common prerequisites), students must complete a minimum of 18 hours of upper-level finance courses beyond FIN 3403. At least 12 hours must be taken in residence at USF Tampa. A grade point average of 2.0 or higher must be achieved in all major course work at USF and an overall 2.0 GPA including transfer work. Students are required to earn a C- or higher in all finance courses that are counted toward the major requirements.

Required Finance Courses (18-24 credit hours):
FIN 4303 Financial Institutions and Markets
FIN 4414 Advanced Corporation Finance
FIN 4504 Principles of Investments
FIN 4443 Financial Policies and Strategies*
Additional upper-level Finance electives

*FIN 4443 is a capstone course that should be taken in the final semester of the major (or as close as possible).
Finance electives can be selected from among those 3000- and 4000-level classes that have FIN, REE, and RMI prefixes. At least one elective must have an FIN prefix. Independent Study (FIN 4905) and Independent Research (FIN 4915) will not be accepted as credit toward the minimum degree requirements for a major in Finance. The courses listed below are suggested electives that are relevant for students who might want to pursue careers in the following areas:

**Corporate Financial Management**
- FIN 3604 International Finance
- FIN 4412 Working Capital Management
- FIN 4443 Financial Policies and Strategies
- FIN 4461 Financial Statement Analysis

**Management of Financial Institutions**
- FIN 3233 Money and Banking
- FIN 3604 International Finance
- FIN 4324 Bank Management
- FIN 4412 Working Capital Management
- FIN 4443 Financial Policies and Strategies
- FIN 4461 Financial Statement Analysis

**Investments**
- FIN 3604 International Finance
- FIN 4461 Financial Statement Analysis
- FIN 4514 Advanced Investment Analysis & Management
- FIN 4934 Selected Topics in Finance*

**Financial Services**
- FIN 3604 International Finance
- FIN 4514 Advanced Investment Analysis & Management
- FIN 4934 Selected Topics in Finance*
- REE 3043 Real Estate Decision Making
- RMI 3011 Principles of Insurance

*Please see your academic advisor for the necessary selected topics course.

**Requirements for a Minor in Finance (FIN) (for Business majors only)**

Students majoring in Business may minor in Finance. The Finance minor requires 12 credit hours and the requirements are:

- FIN 4504 Principles of Investments
- FIN 4303 Financial Institutions and Markets
- FIN 4414 Advanced Corporation Finance
- FIN 4443 Financial Policies and Strategies*

*FIN 4443 is a capstone course that should be taken in the final semester of the minor (or as close as possible).

A GPA of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions. Students are required to earn a C- or higher in finance courses that are counted toward the minor requirements.

At least nine (9) of the required 12 credit hours must be taken in residence at USF - Tampa.

**Finance Faculty**


**MANAGEMENT INFORMATION SYSTEMS (ISM) (CIP = 52.1201) (Track 1 of 2)**

**TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

The Management Information Systems major provides the skills and knowledge necessary for information systems development and support positions in both business and non-business organizations.

**Requirements for the B.A./B.S. Degree**

Within the 120-semester-hour program listed in the Business General Requirement section (including the state mandated common prerequisites), students must complete a set of 6 required MIS courses and 3 approved MIS electives. MIS majors must earn a "C" or higher (not C-) in ISM 3011 and the six required MIS courses. Students must have a 2.0 or higher GPA in the major; they can use grade forgiveness for only one upper-level MIS course. At least
21 hours must be taken in residence at USF Tampa. A grade point average of 2.0 or higher must be achieved in all major course work at USF and an overall 2.0 GPA including transfer work.

Required MIS Courses (27 credit hours):
- ISM 3232 Business Application Development*
- ISM 3113 Systems Analysis and Design*
- ISM 3431 Operations and Supply Chain Processes
- ISM 4212 Database Administration
- ISM 4220 Business Data Communications
- ISM 4300 Managing Information Resources
- Plus Approved MIS Electives**

*ISM 3232 (Business Application Development) is recommended to be taken before, or concurrently with, ISM 3113 (Systems Analysis and Design).

**No more than three hours of ISM 4950 can be counted as MIS electives. (ISM 4905 will not count as an MIS elective.)

Requirements for a Minor in MIS (ISM) (for Business majors only)
Students majoring in Business may minor in MIS. The requirements are 12 credit hours and the required courses are:
- ISM 3113 Systems Analysis and Design
- ISM 4212 Database Administration
- Approved MIS Elective

A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.
At least nine (9) hours of the required 12 credit hours must be taken in residence at USF Tampa.

Accelerated B.S./M.S. Program
The goal of the USF College of Business integrated undergraduate-graduate program in MIS is to provide outstanding undergraduate students an option to complete the B.S. undergraduate degree in MIS and the M.S. graduate degree in MIS in five years (141 total hours).
The integrated B.S./M.S. program is a 141-hour undergraduate-graduate option that allows eligible students to work towards the M.S. in MIS degree requirements while completing their undergraduate B.S. degree. Students interested in this option will work closely with an advisor and a faculty member to develop an integrated plan of study.

General Guidelines
- **Time of admission to the program:** Students will be eligible for admission to the integrated degree program at the beginning of their senior year in MIS. Students must apply for admission consideration during their junior year. Students will start taking courses in the graduate program in their senior year.
- **Joint admission:** Students must apply to and meet admission requirements of the M.S. in MIS graduate program.
- **Plan of study:** In consultation with an advisor and a faculty member, students will be required to prepare a Graduate Degree Action Plan.
- **Degree Action Plan.** The plan will cover the entire time period of the program and it will be periodically reviewed with an advisor.
- **Advising:** Students will present their portfolio (see below for details) and a plan of study in person to the integrated program committee prior to being admitted to the program.
- **Tuition charges:** Students will be required to pay graduate tuition rates when taking graduate courses.

Admission Requirements
1. Students with at least a junior standing in their undergraduate degree program may apply for admission consideration into the integrated B.S./M.S. undergraduate/graduate program. Students will submit an **Accelerated Program Interest Form** that must be signed by the Graduate Program.
2. Students must have a minimum 3.25 GPA.
3. Interested students will be required to present a “Portfolio” of the following credentials:
   a. Three letters of recommendation, at least two from faculty
   b. Statement of intent—a personal statement about why the student wishes to apply for the integrated program.
   c. Undergraduate transcripts.
   d. Other supporting documents (e.g., projects and papers, software, work experience, internships, etc.) should be included where possible.
4. The GMAT or GRE should be taken sometime before or during the Fall semester of the junior year of study.
5. All applicants will need to meet any other admission requirements established for the M.S. in MIS program.
6. The application to the integrated program will be considered as a complete package and therefore obtaining a high undergraduate GPA is not a guarantee of admission. Grades in the undergraduate MIS core courses will be taken in consideration and will have a significant impact on the M.S./MIS acceptance decision.

**Degree Requirements** 5-Year Plan of Study for Integrated B.S./M.S. Undergraduate-Graduate Program

With appropriate planning, a total of 12 hours of graduate credit may be taken that can be applied to both the B.S. and M.S. degrees. This will reduce the minimum total credits required for both programs from 153 (120 for B.S., 33 for M.S.) to 141 credits. Specifically:

- None (9) hours of graduate credit can be taken in place of the 9 hours of elective undergraduate credits. The student must earn a minimum grade of B in each graduate course that is to be counted for both degrees.
- The graduate level Operations and Supply Chain Processes course ISM 6436 can be taken in place of the comparable undergraduate course ISM 3431.

A comprehensive plan of study to complete the integrated B.S./M.S. program will be developed with the guidance of an advisor and a faculty member. A possible plan of study could be as follows. Summer sessions may also be included in the study plan.

**First Year and Second Year**
Courses and credits as designated for freshman and sophomore years.

**Third Year (Apply for Admission to Integrated B.S./M.S. Program)**
- ISM 3232 Business Application Development
- ISM 3113 Systems Analysis and Design
- Additional undergraduate courses
- ISM 4212 Database Design and Administration
- ISM 4220 Business Data Communications

**Fourth Year (Student accepted in M.S./MIS Program)**
- ISM 6436 Operations and Supply Chain Processes
- Twelve (12) credit hours of undergraduate coursework
- ISM 4300 Managing Information Resources (B.S. Capstone)
- ISM 6124 Advanced Systems Analysis and Design
- Six (6) credit hours of undergraduate or graduate electives

**Fifth Year**
- ISM 6225 Distributed Information Systems
- ISM 6218 Advanced Database Management
- Eighteen (18) credit hours of graduate electives
- ISM 6155 Enterprise Information Systems Management (M.S. Capstone)

The following courses are suggested specialization elective courses and are cross-listed between the graduate and undergraduate catalogs:
- ISM 6145 Seminar in Software Testing
- ISM 6156 Enterprise Resource Planning and Business Process Management/ ISM 4153 Information Systems in Organizations
- ISM 6328 Information Security and Risk Management/ISM 4323 Information Security and IT Risk Management
- ISM 6316 Project Management

For further course information, visit: [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**Information Systems & Decision Sciences Faculty**


- **MANAGEMENT (MAN) (CIP = 52.0201)**
  **TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

The undergraduate major in Management prepares students to manage and lead all aspects of organizations. It also prepares students for graduate study in business and other fields.

Mastery of course content enables students to inspire themselves, others, teams, and organizations to coordinate efforts to provide effective outcomes. Content covered includes ethics and virtue, organizational behavior, human resources, domestic and international cultural differences, and negotiating skills. A capstone course integrates the learning objectives of the major in a study of a real company where students demonstrate that they can now apply effectively what they have learned.
Requirements for the B.A./B.S. Degree
Within the 120-semester-hour program listed in the Business General Requirement section (including the state mandated common prerequisites), students must complete 21 hours of management beyond MAN 3025. At least 15 hours must be taken in residence at USF Tampa. A grade point average of 2.0 or higher must be achieved in all major course work at USF and an overall 2.0 GPA including transfer work.

Required Management Courses (21 credit hours):
- MAN 3240 Organizational Behavior Analysis
- MAN 3301 Human Resource Management
- MAN 4282 Organizational Assessment
- MAN 4737 Integrated Management Applications
- Plus 9 hours of other upper-level Management courses

Requirements for a Minor in Management (MAN) (for Business Majors Only)
Students majoring in Business may minor in Management, which requires 12 credit hours for completion.
- MAN 3240 Organizational Behavior Analysis
- MAN 3301 Human Resource Management
- MAN 4282 Organizational Assessment
- MAN 4737 Integrated Management Applications
A GPA of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.
At least nine (9) hours of the required 12 credit hours must be taken in residence at USF-Tampa.

Requirements for the Minor in Entrepreneurship
This is an interdisciplinary entrepreneurship minor available to all USF undergraduate majors. This minor prepares graduates to enter their chosen major area of concentration in a variety of for-profit and not-for-profit positions. Students will demonstrate professional competencies in opportunity assessment, business planning, critical thinking, and the development and launch of new products and services. Other majors require 15 credits to complete the minor.

Requirements for a Minor in Entrepreneurship (ETN)
(for Business and Industrial Engineering majors only)
The minor requires a total of 12 credit hours.
- ENT 4014 New Venture Formation
- ENT 3613 Creativity & Innovation in Entrepreneurial Firms or EIN 4933 Selected Topics in Industrial Engineering
And two courses from the following:
- EIN 4933 Selected Topics: Product Development
- ENT 4424 Fundamentals of Venture Capital
- MAN 4802 Entrepreneurship and Small Business Management
- MAN 4804 Small Business Management Counseling
A GPA of 2.0 or better must be achieved in the course work at USF and in all minor courses completed at other institutions.
At least nine (9) hours of the required 12 credit hours must be taken in residence at USF Tampa.

Requirements for a Minor in Entrepreneurship (ETB)
(for Non-Business and Non-Industrial Engineering majors only)
The minor requires a total of 15 credit hours.
- ENT 3003 Principles of Entrepreneurship
- ENT 4014 New Venture Formation
- ENT 3613 Creativity & Innovation in Entrepreneurial Firms or EIN 4933 Selected Topics in Industrial Engineering
And two courses from the following:
- EIN 4933 Selected Topics: Product Development
- ENT 4424 Fundamentals of Venture Capital
- MAN 4802 Entrepreneurship and Small Business Management
- MAN 4804 Small Business Management Counseling
A GPA of 2.0 or better must be achieved in the course work at USF and in all minor courses completed at other institutions.
At least nine (9) hours of the required 15 credit hours must be taken in residence at USF Tampa.
Management and Organization Faculty

Center for Entrepreneurship Faculty
Director: M. Fountain; Assistant Professors: D. Hechavarria, S. Lux, L. Zhang; Instructor: S. Budd.

• MARKETING (MKT) (CIP = 52.1401)
TOTAL PROGRAM HOURS = 120 CREDIT HOURS
Marketing is a dynamic field with many dimensions, including product selection and planning, product distribution, branding, pricing and promotion. Marketing poses many challenges and yields generous rewards for those who meet these challenges. Marketing operations are carried out domestically and internationally in virtually all business organizations that offer a product or service. Many marketing concepts are applicable to the operations of non-profit organizations such as governmental, educational, and health care institutions, as well as charitable and political campaigns.

Marketing operations provide the most visible links between the firm or institution and its many publics. Marketing deals with people who are constantly changing in their needs, wants, and desires; and coupled with these changing tastes is a fiercely competitive environment sustained by all the resources of a rapidly evolving technology. These forces lead to much of the challenge and too much of the dynamic nature of marketing.

The Marketing program at USF prepares students for initial entry and management positions in many areas of marketing with a curriculum that is concerned with:
1. Understanding how to attract and retain customers;
2. Having the ability to find and analyze information;
3. Being able to design, collect, and analyze marketing information to be used in managerial decision making;
4. Using electronic and traditional media to create satisfied loyal customers;
5. Having personal communication skills that businesses demand;
6. Being capable of writing a winning marketing plan;
7. Understanding and being able to apply the latest marketing concepts

Requirements for the B.A./B.S. Degree
Within the 120-semester-hour program listed in the Business General Requirement section (including the state mandated common prerequisites), students must complete a minimum of 18 hours in marketing beyond MAR 3023. At least 12 hours must be taken in residence at USF-Tampa. A grade of “C” or higher (not C-) is required in all Marketing classes including Basic Marketing (MAR 3023) plus a 2.0 GPA in all major course work at USF and an overall 2.0 GPA including transfer work.

Required Marketing Courses (18-24 credit hours):
MAR 3823 Marketing Management
MAR 3613 Marketing Research
MAR 3400 Professional Selling
MAR 4333 Electronic/Promotion Management
MAR 4824 Marketing Management Problems
Additional upper-level marketing courses

It is strongly recommended that marketing majors take an internship course (MAR 4933 Practicum) as part of their plan of study. The marketing practicum course provides students an internship opportunity to gain real world business experiences while they continue to take other courses and make progress towards their degree. Intern sponsors are provided as part of the course and academic work is delivered online. It is also recommended that courses in information technology, finance, management, and international business be included in the business electives.

Undergraduate students in the College of Business not majoring in Marketing can greatly enhance their attractiveness to employers by taking a minor in Marketing or taking selected courses from the Marketing curriculum to broaden their backgrounds. Marketing is particularly complementary for College of Business students majoring in Information Systems, Finance, and Management.
Requirements for a Minor in Marketing (MKT) (for Business majors only)

A total of 12 credit hours are required to complete the minor.
The requirements are:
1. MAR 3823 Marketing Management
Any three (3) upper level Marketing courses with a MAR prefix (excluding MAR 4824)
A grade of C or higher (not C-) is required in MAR 3023 and all Marketing minor coursework.
A GPA of 2.0 or better must be achieved in the course work at USF and in all minor courses completed at other institutions.
At least nine (9) hours of the required 12 credit hours must be taken in residence at USF Tampa.

• ADVERTISING (BAV) (CIP = 52.1499)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Requirements for the Zimmerman Advertising Business Major

The Advertising major in the College of Business is unique in that it is a collaborative effort between the School of Mass Communications in the College of Arts and Sciences and the Marketing Department in the College of Business. The major complements an existing Advertising track in the Mass Communications major and provides students the opportunity to combine the creative, media, and account planning aspects of advertising with knowledge, skills, and abilities in accounting, economics, finance, information systems, management, marketing and strategy.

Requirements for the B.A./B.S. Degree

Within the 120-semester hour program listed in the Business General Requirement section (including the state mandated common prerequisites), students must pass the EDT (English Diagnostic Test), complete all courses listed below with a minimum grade of C, not C-, participate in a study abroad experience, and live in the Advertising Living Learning Community during their freshmen year.

Required Courses for Advertising major (27 credit hours):
- ADV 3008 Introduction to Advertising
- ADV 3101 Advertising Creativity
- ADV 3300 Advertising Media Strategy
- ADV 4600 Advertising Management
- ADV 4800 Advertising Campaigns
- ADV 4940 Advertising Practicum
- MAR 3613 Marketing Research
- MMC 4936 Selected Topics in Mass Communications Studies
- MAR 4503 Buyer Behavior

Required Mass Communication Core Courses (6 credit hours):
- MMC 2100 Writing for the Mass Media
- MMC 3602 Mass Communications and Society

Required Business Electives (12 credit hours):
- CGS 2100 Computers in Business
- MAR 3823 Marketing Management
- MAR 4933 Selected Topics in Marketing
- MAR XXX Upper-Level Marketing Elective

Required Non-Business Electives (8 credit hours):
- GEB 2935 Selected Topics in Business: Speaker Series
- MAR 4905 Independent Study
- MMC 4910 Individual Research in Mass Communications
- SLS 1101 University Experience

Residency

In the major, 15 of the 21 Advertising hours and 3 of the 6 Marketing hours must be taken in residency at USF Tampa. At least a minimum of a C (not C-) grade must be earned in each course. An overall GPA of 2.0 is required in the major for graduation.

Marketing Faculty

• INTERNATIONAL BUSINESS (ITB) (CIP = 52.1101)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

The Bachelor of Arts in International Business (IB) provides students with the knowledge, skills and experience necessary for successful careers in the global business environment.

Graduates will have not only the International Business major, but also a minor in one of the functional areas of business (finance, management, marketing, economics and information systems). With this preparation, graduates will find employment in many manufacturing, service or knowledge-based industries with international markets, international suppliers, international sources of finance or an internationally diverse workforce.

The IB program is unique in that it combines preparation in business administration with language training, area studies, and a meaningful overseas work or study experience. The curriculum includes, in addition to the general education and liberal arts requirements, a strong grounding in business core courses, an 18-hour major in international business and area studies subjects, a concentration in a functional area of business, training in a foreign language and overseas academic or business experience. International students, who have completed at least the equivalent of a high school education in their native country, are advised to pursue another business major. At a minimum, international students, who have completed at least the equivalent of a high school education in their native country, may not study the area of their origin as part of the International Business major. A minimum of 120 hours is required to complete a B.A. in International Business. At least 12 hours must be taken in residence at USF Tampa.

International Business Major (18 credit hours):

Business Courses (9 credit hours)
FIN 3604 International Finance or ECO 3703 International Economics
ISM 4382 Global Information or MAR 4156 International Marketing or MAN 4600 International Management
MAN 4631 Global Perspectives and Management Choices

Area Studies Courses (9 credit hours)
Students should see an advisor for an approved list of upper level area studies courses.

Business Concentration (12 credit hours):

Students will choose one from the following disciplines:

Economics
ECO 3703 International Economics
Plus 9 hours of upper-level Economics Coursework

Marketing
MAR 3823 Marketing Management
MAR 4156 International Marketing
Plus 6 hours of upper-level Marketing Coursework

Finance
FIN 4504 Principles of Investments
FIN 4303 Financial Institutions and Markets
FIN 4414 Advanced Corporation Finance
FIN 3604 International Finance

Management
MAN 3240 Organizational Behavior Analysis
MAN 3301 Human Resource Management
MAN 4282 Organizational Assessment
MAN 4600 International Management

Information Systems
ISM 3113 Systems Analysis and Design
ISM 4212 Database Design and Administration
ISM 4382 Global Info Systems
Plus three (3) hours of upper-level ISM Coursework

Foreign Language Above First Year (9 credit hours):
Foreign Language(s) selected should support the study abroad area and the Area Studies courses.

Overseas Business Internship (3 credit hours) or Semester Abroad:
The International Business Major is designed to be completed within 120 credit hours. Certain courses satisfy requirements in more than one area. To maximize academic options, students should seek guidance from an advisor once a decision has been made to pursue this major.

Please note: Courses used to satisfy a major in accounting, economics, finance, information systems management or marketing may not be used to satisfy the concentration requirement for the ITB major. Courses used for the concentration for the ITB major cannot be used for a major.

Requirements for the Minor in International Business (ITB)

Students Majoring in Business
To qualify for the minor in International Business, students with a major in one of the degree programs in Business must successfully complete a minimum of 12 hours of international business or related course work. At least 9 semester credit hours in the minor must be selected from a set of approved upper-level international business courses (see below). One of the courses in the minor, relevant to the student's international area of interest, can be an approved
area studies course, or other course, taken outside the College. A minimum of 9 semester hours of the minor course work must be taken at USF–Tampa. A grade point average of 2.0 or higher must be achieved in minor course work taken at USF, as well as in any transfer work applicable to the minor. Courses used in a major cannot be used in the minor. Competency to effectively communicate in a foreign language is strongly advised.

Non Business Majors

To qualify for the International Business minor, non-business majors must complete the requirements for the minor in Business Administration (see previous Requirements for a Minor in Business) and complete at USF a minimum of 9 semester credit hours selected from a set of approved upper-level international business courses. A grade point average of 2.0 or better must be achieved in the minor course work taken at USF, as well as in any transfer work applicable to the minor program. Competency to communicate in a foreign language is strongly advised. A minimum of 18 hours must be taken in residence at USF Tampa.

A statement attesting to the completion of the Minor in International Business will appear on the student’s official transcript.

Courses Approved for International Business

The following courses are currently approved for the International Business major and minor:

- ECO 3703 International Economics
- FIN 3604 International Finance
- ISM 4382 Global Information Systems
- MAN 4600 International Management
- MAN 4631 Global Perspectives and Management Choices
- MAR 4156 International Marketing

Certificate in National and Competitive Intelligence

The Certificate Program in National and Competitive Intelligence is designed to promote students’ analytical capabilities, not only improving their competitiveness in the employment process, but also giving them solid intellectual foundations for demanding professional careers. The program specifically helps prepare students for careers in government, especially intelligence positions, as well as analytical executive positions in the banking, insurance, and the pharmaceutical industries. The flexible program includes workshops and seminars which each student can fit with his or her major course of study. Those who complete the certificate program should be able to effectively gather, analyze, and evaluate information and present conclusions both orally and in writing.

Certificate Requirements:

The requirements for the undergraduate certificate are:

1. Minimum of four (4) semesters of instruction in one foreign language, and passing a foreign language proficiency test in the subject matter. Students who are proficient in a foreign language may take a foreign language proficiency examination as administered by the University.
2. Satisfactory completion of at least one professional writing course;
3. Satisfactory completion of at least one international relations course;
4. Satisfactory completion of at least two courses in college/major departments that promote analytic skills and critical thinking;
5. Satisfactory completion of a 4-day summer seminar organized by the Program Director;
6. Minimum completion of 24 credits-18 hours must be completed on the Tampa campus.
7. Satisfactory completion of all coursework for the certificate with a grade of C or better, C- is not sufficient.
8. Only degree-seeking undergraduate students may apply for this certificate.

1. Foreign Language Proficiency: (minimum 4 semesters of language study, or proficiency):

   Students must pass an exam administered by the World Languages Department to determine if the student has the equivalent of two years of language instruction in any foreign language. The placement exam will be administered after a student has taken language instruction at USF or for students who claim foreign language proficiency upon enrolling at USF. Those students who want to pursue additional training in a “hard” language (Chinese, Arabic, for example) are eligible for some funding support under this program. Interested students should submit a language-study proposal to the Director of the Program.

2. Professional Writing: (3 credit hour minimum):

   The certificate program places a heavy emphasis on developing writing skills. Certificate holders must have satisfactorily completed one of the following professional writing courses:

   - ENC 3242 Technical Communication for Majors
   - ENC 3250 Professional Writing
   - ENC 3310 Expository Writing
3. **International Relations: (3 credit hour minimum):**
Certificate holders must have satisfactorily completed one of the following international relations courses:
- CPO 2002 Introduction to Comparative Politics
- INR 3102 American Foreign Policy
- CPO 4930 Comparative Govmnt and Politics of Selected Countries/Areas

4. **Analytical Skills and Critical Thinking Courses: (6 credit hour minimum):**
Certificate holders must satisfactorily complete courses in their majors/minors that promote analytical skills and critical thinking. The Program Director, in consultation with the Dean of the College or Department of a requesting student, can include proposed courses (such as independent study) to fulfill this requirement; course approval will be made on a case-by-case basis. The Analytical Skills and Critical Thinking requirement should be met by taking the appropriate courses for your major.
- AMS 4935 Senior Seminar in American Studies
- CEG 4850 Capstone Geotechnical/Transportation Design
- CES 4704 Capstone Structural/Materials Design
- CIS 4250 Ethical Issues and Professional Conduct
- CWR 4812 Capstone Water Resources/Environmental Design
- ECH 4615 Product and Process Design
- EEL 4914 Senior Project Design
- EIN 4891 Capstone Design
- EML 4551 Capstone Design
- GEB 4890 Strategic Management and Decision Making
- HIS 4936 Pro-Seminar in History
- HSC 4631 Critical Issues in Public Health
- MHS 4731 Writing for Research and Publication in Behavioral and Community Sciences
- MAN 4631 Global Perspectives and Management Choices

5. **Workshops and Seminars: (2 credit hour minimum):**
The Program Director will conduct workshops (one-day) and seminars (four consecutive days during the summer break). Students pursuing a certificate must participate in one workshop prior to registering for a seminar. The workshops will be conducted frequently during the academic year and the four-day seminar will be offered during the summer months (ideally, one in June, one in July and one in August). Satisfactory completion of the seminar constitutes a 2-credit course. The seminars may be repeated for credit.
Student Organizations within the College of Business

All students are encouraged to participate in extracurricular activities. The following organizations provide a means for students to develop both professionally and socially while attending the College of Business.

**Accounting Society at USF** – An organization dedicated to providing a channel of information and involvement to underclassmen and younger students who are interested in pursuing a degree in Accounting.

**Alpha Kappa Psi** - Provides a forum for leadership development in preparation for careers in all areas of business. Alpha Kappa Psi is a progressive, coed, professional business fraternity.

**Association of Marketing Students** – As a collegiate chapter of the American Marketing Association, this organization will help to further the growth of business-oriented individuals within the field of Marketing.

**Beta Alpha Psi** - The International Professional Accounting, Finance, and Information Systems Honors organization devoted to the promotion of the profession, inspiring professional ideals, and recognizing academic achievement.

**Beta Gamma Sigma** – An honor society that encourages and rewards outstanding scholarship among Business students.

**Business College Council** - Student representatives advise the dean and the faculty on student attitudes and goals. Also, the Council acts as a liaison between the Student Government Association and the College of Business.

**Delta Sigma Pi** - Fosters the study of business and a closer affiliation between students and the business world. Delta Sigma Pi is a coed, professional business fraternity.

**Economics Scholar Society** – Promotes and develops the application of economic concepts within the student body and provide a social basis for interaction.

**International Business Board** - Promotes interest in international business, provides professional and cultural programs, and encourages dialogue regarding opportunities for study and work abroad.

**Management Information Systems Society** - The MIS Society is a career-oriented organization focusing on all areas of business data management and information systems development.

**Minority Business Association** - Encourages and supports students in their efforts to achieve success in a demanding academic setting.

**National Association of Black Accountants** - Develops, encourages, and serves as a resource for greater participation by African-Americans and other minorities in the accounting and finance professions.

**Omicron Delta Epsilon** - The International Economics Honor Society promoting outstanding achievements in economics and the establishment of closer ties between students and faculty.

**Student Finance Association** - An organization for Finance majors and other business-oriented students that provides exposure to the many facets and opportunities in the field of finance.

**Women in Business Society** - The USF Women in Business Society aims to bridge the gap between the academic and business worlds by exposing our members to successful female role models. Through speaking engagements and social events, our members have the opportunity to enhance their business skills, build their professional network, and expand their portfolios.
The College of Education envisions itself as a leader in regional, national and international education. Leadership in education encompasses:

- Collaboration that serves communities, institutions, and individuals
- Academic excellence
- Research, scholarship, and inquiry that renews the educational process
- Ethical practice

The mission of the College of Education is to offer challenging learning opportunities in a supportive and diverse environment, create and support research, scholarship, and inquiry in education, prepare the next generation of educators, scholars, and leaders for pK-12 and the professoriate through exemplary undergraduate and graduate degree programs, serve the community to offer programs that prepare professionals who work competently, collaboratively, and ethically to improve educational outcomes for all.

The College of Education is accredited by the National Council for Accreditation of Teacher Education (NCATE). All educator preparation programs must meet the requirements of Chapter 6A-5.066 Rules of the State Board of Education of Florida, and have “Approved Program” status. The College of Education is committed to a continuous and systematic examination of the professional program of educator preparation. Each subdivision of the college maintains professional standards by participating in nationally-certified program reviews and also through ongoing departmental appraisals of learning outcomes.

Educator preparation programs are aligned with the Florida Educator Accomplished Practices and each program has an assessment program in place to monitor student progress toward these standards. Programs that do not lead to teacher certification are aligned with their respective professional standards and have assessment programs in place to monitor student progress toward those standards. Students in educator preparation programs leading to teacher certification are required to complete critical tasks/assignments in several of their professional preparation courses. Educator preparation programs require students to submit these critical tasks/assignments in an electronic portfolio. Therefore, a yearly access code to the electronic portfolio must be purchased by the student. In courses that have critical tasks, students must achieve a satisfactory score in order to pass the course.

The College of Education offers several programs in Secondary Education that are joint programs. This means we employ a collaborative approach to teacher preparation by The College of Education offering the core professional courses for secondary programs while the College of Arts and Sciences offers the content courses needed for the area of specialization.

Important information regarding the College of Education is available at: http://www.coedu.usf.edu/.

**Admission Requirements**

The following section contains information specific to teacher education programs. For students seeking admission to Exercise Science, please refer to the later section of the catalog detailing this particular program. Students who wish to teach in a particular subject area or field should begin preliminary coursework during their first year in college. Students are eligible for admission to the College of Education when they have satisfied all admission requirements and have applied for admission through Student Academic Services (EDU 106). Admission requirements include the university’s Foundations of Knowledge and Learning Core Curriculum, state-mandated common prerequisites for education, the appropriate GPA, and passing PRAXIS I or General Knowledge Test scores.

Admission to an educator preparation program is contingent upon meeting the following college requirements:

1. Completion of a College of Education application form
2. Completion of Foundations of Knowledge and Learning Core Curriculum requirements. (See the “Academic Policies and Procedures - Foundations of Knowledge and Learning Core Curriculum Requirements” section of the catalog.) FKL courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution’s existing catalog.

**Note:** Students should attend an advising session offered by Student Academic Services to be certain they are enrolled in courses appropriate for their intended major.

3. Completion of PRAXIS I or General Knowledge Test with passing scores (No exemptions or waivers are acceptable). Successful completion of all sections of the General Knowledge Test (GKT) during the first semester of admission is required. Failure to complete successfully all sections of the GKT during the first semester of admission may result in revocation of admission into the College of Education.

4. Although no longer required for admission to the College of Education, students are still encouraged to take the ACT or SAT. Many existing scholarships still require these scores.

5. Completion of State Mandated Common Prerequisites. **Note:** The following prerequisites are required for all students in teacher education majors. Students should review their intended majors (listed under “Departments and Programs”) for a complete list of specific course prerequisites and requirements beyond these listed below:

- EDF X005 Introduction to the Teaching Profession 3
- EDF X085 Teaching Diversity for Educators 3
- EME X040 Introduction to Technology for Educators 3

In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible
Completion of Foundations of Knowledge and Learning Core Curriculum requirements: Foundations of Knowledge and Learning Core Curriculum courses will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution’s existing catalog or in the Counseling Manual. (See the “Academic Policies and Procedures - Foundations of Knowledge and Learning Core Curriculum Requirements” section of the catalog).

USF International/Diversity Courses Credits

- **AMH 2010** American History I
- **AMH 2020** American History II
- **ANT 2000** Introduction to Anthropology
- **ANT 2410** Cultural Anthropology
- **ARH 2050** History of Visual Arts I
- **ARH 2051** History of Visual Arts II
- **EUH 2011** Ancient History I
- **EUH 2022** Medieval History II
- **EUH 2031** Modern European History II
- **GEO 2371** Introduction to Earth Systems Science
- **LIT 2010** Introduction to Fiction
- **LIT 2040** Introduction to Drama
- **MUH 2051** Folk and Traditional Music of World Cultures
- **REL 2300** Introduction to World Religions
- **SYG 2000** Introduction to Sociology

6. Minimum GPA: An overall minimum GPA of 2.50 on all attempted hours
7. Additional criteria as may be established by each program

Some programs accept a limited number of students. Additionally, certain programs admit students only in a specified semester. Information regarding admission requirements for programs may be obtained from Student Academic Services (EDU 106).

Information for Students Concerning Field Experience

Students pursuing a Bachelor's Degree in an educator preparation field will need to complete field experiences in EDF X005 and EDF X085. These are prerequisite courses required for admission to the College of Education. Students will need a social security number before enrolling in the first day of classes for these courses. International students will need to speak with International Student Services regarding their options for obtaining a social security number. Obtaining a social security number is ultimately the student's responsibility.

If you are pursuing a Bachelor's degree in Exercise Science you might need an SSN to complete a field experience or internship depending on your placement site requirements. If you are considering admission into the Exercise Science program, please discuss the need for an SSN with the program coordinator. Students enrolled in courses requiring field experiences may be required to undergo a background check and fingerprinting depending on the school district or agency. Depending upon the outcome of a background check, students may be informed they cannot be placed in a particular school district. As each academic department determines which school district in which to place their students, past legal history may impact a student's ability to enter field experience and continue in a teacher education program. Please be advised that program and/or course requirements and fingerprinting/background check procedures are subject to change per state legislative mandates, Florida State Department of Education program approval standards, accreditation criteria, and school district policy and procedures.

Students are strongly encouraged to purchase liability insurance before entering any course with field experience. Student Academic Services (EDU 106) can provide resources to students regarding coverage options.

Education Advising

Student Academic Services (SAS) is responsible for coordinating and executing many of the processes and procedures that support the academic pursuits of students in the College. The department's major areas of responsibility include the advisement of all pre-admitted and admitted undergraduate and Master of Arts in Teaching students, addressing matters related to final internship, providing information regarding scholarships and job opportunities, and providing students with resources related to Teacher Certification. SAS is committed to serving the mission of the College of Education and identifies student success as its guiding value.

While students are ultimately responsible for knowing and fulfilling all university, college, and degree program
requirements for graduation, the professional advisors in SAS are able to facilitate a student’s understanding of academic policy and procedure. Students interested in education are encouraged to make an appointment with an academic advisor in EDU 106 to learn more about the programs. Once admitted to the college, students are encouraged to meet with their academic advisor each semester. Appointments can be made using our online appointment scheduler at http://www.coedu.usf.edu/main/prospective.html. For additional contact information, please call the SAS office at 813-974-2979 or visit the web site at http://www.coedu.usf.edu/sas/.

Advising Office
Student Academic Services is located on the Tampa campus of USF in EDU 106. The office serves undergraduate and Master of Arts in Teaching students in the College of Education. The office is open from 8:00 AM to 5:00 PM weekdays and closed on university holidays.
Phone: 813-974-2979  •  Fax: 813-974-3391

Application Information:
For general information, call (813) 974-2979. The admission process into the College of Education is separate and in addition to admission to USF. Students must be admitted to USF if they want to be eligible for admission to the College of Education. Information regarding the admission process such as deadlines to apply, terms of admission per major, course sequence and program overview can be found on our site at www.coedu.usf.edu from the Prospective Student tab. Tampa Campus students must register and attend a College of Education orientation after being accepted into the College prior to registering for classes.

During the College of Education orientation, students will receive information about their degree program and register for courses for their first semester.

Time Limitations
The College of Education may accept professional education and specialization coursework completed at this university or at other accredited institutions as follows:
1. Courses completed within the last five years may be accepted toward graduation.
2. Courses completed over five years but less than ten years ago must have the approval of the chairperson from the department in which the equivalent course is taught
3. Courses completed ten years ago or longer will count as elective credit only toward graduation.

Qualifications for Internship Experience in Educator Preparation Programs
The final internship experience involves observing and teaching in an early childhood, elementary, secondary, or exceptional classroom. Internship sites are limited and dependent upon the academic department.

Special requirements for enrollment in the final internship and seminar courses are:
1. Admission to the College of Education
2. Completion of Foundations of Knowledge and Learning Core Curriculum, “Gordon Rule,” and all other program prerequisites
3. Completion of an application for the final internship by the deadline noted. Applications for final internship are found on the Student Academic Services website. Application deadline for Fall Semester is mid-January. Application deadline for Spring semester is mid-June.
4. Completion of fingerprinting and background check as required by the school district in which the student is placed
5. Students must earn a minimum “C-” or better grade or “S” in their required major courses.
6. Students must earn an overall GPA of 2.50 and combined GPA of a 2.50 in Core and Specialization courses.
7. Students should meet with their academic advisor to identify any additional requirements toward internship.

NOTE: Students who withdraw from or who have unsatisfactory grades in a field experience or internship must petition the Professional Standards Committee within their academic department before they will be allowed to repeat the experience. Any internship can be taken only twice with an unsatisfactory grade before removal from the program. Failure to pass the Subject Area and Professional Education portions of the Florida Teacher Certification Exam will result in an “I” (incomplete) grade for the final internship experience which will prevent the student from graduating.

College Requirements for Graduation from Educator Preparation Programs
To be certified by the College of Education for graduation, a student must:
1. Earn a minimum of 120 credit hours
2. Successfully complete all program requirements for ESOL
3. Earn a minimum overall grade point average of 2.5 and a minimum combined GPA of 2.5 in Specialization and Professional Core courses
4. Successfully complete the internship which includes passing the Subject Area and Professional Education components of the Florida Teacher Certification Exam (FTCE).
5. Submit passing scores on the appropriate FTCE Subject Area and Professional Education subtests.
6. Submit all documents due for graduation (i.e., test scores, final grades, final transcripts) to the Director of Undergraduate Programs and Internship (in EDU 106) no later than 5:00 pm on the Friday after the graduation ceremony. If that date is a university holiday, then the said information must be submitted no later than 5:00 pm on the Thursday after the graduation ceremony.
7. Complete the major requirements in a state-approved educator preparation program (which includes general preparation, teaching specialization, and professional preparation).
8. Earn a minimum of 8 credits in Professional Core courses in addition to internship and 12 credits in Specialization courses at USF.
9. Earn a minimum of 30 hours after admittance to an upper-level program at USF Tampa.
10. Apply for graduation using the Office of the Registrar’s graduation application.

**Note:** Normally, the college will recommend the granting of a Bachelor of Science (B.S.) degree which includes three hours of upper-level Writing Intensive coursework and a three-hour Capstone course. The Capstone course is contained within the major coursework. To obtain a Bachelor of Arts (B.A.) degree, the student must meet the Foreign Language Competency (see graduation requirements in front of catalog) in addition to the Writing Intensive and Capstone courses.

## BACCALAUREATE-LEVEL DEGREE PROGRAMS

The College of Education has programs leading to the Bachelor of Science degree* in the following fields:

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Department</th>
<th>Major Code</th>
<th>Concentration Code</th>
</tr>
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<tbody>
<tr>
<td>Early Childhood Education</td>
<td>Childhood Education</td>
<td>BEC</td>
<td></td>
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<tr>
<td>Elementary Education</td>
<td>Childhood Education</td>
<td>BEE</td>
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<tr>
<td>Exceptional Student Education</td>
<td>Special Education</td>
<td>BEX</td>
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<tr>
<td>English Education</td>
<td>Secondary Education</td>
<td>BEN</td>
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<tr>
<td>Foreign Language</td>
<td>Secondary Education</td>
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<td>French Concentration</td>
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<td>German Concentration</td>
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<td>Italian Concentration</td>
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<td>Russian Concentration</td>
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<tr>
<td>Spanish Concentration</td>
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<td>Mathematics Education</td>
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<td>BMM</td>
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<td>Middle Grades Math Concentration</td>
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<tr>
<td>Physical Education</td>
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<td>Science Education</td>
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<td>Biology Concentration</td>
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<td>BSB</td>
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<td>Chemistry Concentration</td>
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<td>Physics Concentration</td>
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<td>Middle Grades Science Concentration</td>
<td>Secondary Education</td>
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<tr>
<td>Social Science Education</td>
<td>Secondary Education</td>
<td>BSS</td>
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</table>

For information regarding a Bachelor of Arts degree, refer to the University Graduation Requirements for the Baccalaureate degree.

Music Education is offered in the College of The Arts. 
See Departmental Section for specific program requirements.

## DEPARTMENTS AND PROGRAMS

The College of Education is organized into seven departments. Each department has one or more programs listed alphabetically in the following section.

### Department of Adult, Career & Higher Education

The Department of Adult, Career and Higher Education offers no programs at the undergraduate level.

**Adult, Career & Higher Education Faculty**

Chairperson: K. King; Professors: J.A. Eison, W.B. James, K. King, J. Lasonen, W.H. Young; Associate Professors: R.B. Closson, D. Dellow, V. Hernandez-Gantes, W.R. Sullins; Assistant Professor: E. Fletcher; Professor Emeritus: W.E. Blank.
Department of Childhood Education and Literacy Studies

The Childhood Education and Literacy Studies Department has the responsibility for the development and supervision of programs leading to the Bachelor of Science Degree in Early Childhood Education and Elementary Education.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

All of the programs offered on regional campuses may vary in requirements and course offerings. For an accurate schedule of courses and requirements, please check with the campus you plan to attend.

Early Childhood and Elementary Education Programs

Early Childhood and Elementary majors will be assigned to a specified sequence of courses to be followed throughout the program enrollment. Coursework will include internship and field experience. Students who withdraw from or who have unsatisfactory grades in the field experiences or internships must petition the department Professional Standards Committee before they will be allowed to repeat the internships. Any internship can only be taken twice before removal from program.

Students must have an overall GPA of 2.50 and a GPA of 2.50 in the combined Professional Core and Teaching Specialization prior to final internship and graduation.

The Elementary Education program is a full-time cohort program in which a group of pre-service teachers take their elementary specialization coursework together. These students also must meet all program and internship requirements. The requirements include being available to participate in internships during regular school hours.

The Early Childhood Education program is a full-time cohort program in which a group of pre-service teachers take their early childhood specialization coursework together.

Early Childhood with ESOL Endorsement

Students may complete a state-approved program to be eligible for licensure in Early Childhood Education Pre-Kindergarten/Primary (age 3 - Grade 3). The current program of studies includes both coursework and extensive field experiences in early childhood settings to enable students to integrate theory with teaching practice. Graduation is dependent upon successful completion of the required courses, associated internships, and critical tasks demonstrating the Florida Educator Accomplished Practices. Early Childhood majors will be eligible for certification in Pre-Kindergarten/Primary (age 3 - Grade 3). Students must pass all Chalk and Wire assignments and upload every assignment to their Chalk and Wire account in order to graduate from the program.

The College of Education offers a full ESOL Endorsement for all Early Childhood Education major graduates. The special requirements for ESOL endorsement through infusion are as follows:

1. Successful completion of TSL 4080 and TSL 4251, with a minimum grade of 70 percent or better on all sections of the ESOL Comprehensive Exam administered in the two ESOL courses;
2. Successful completion of a 20-hour early ESOL field experience in TSL 4080;
3. Successful completion of a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over 10 days; and
4. Successful completion of all Chalk and Wire assignments as required, including from the two ESOL courses and the ESOL-infused classes.

Elementary Education with ESOL Endorsement

Students may complete a state-approved program to be eligible for certification in Elementary Education (Grades K-6). Degree and certification requirements are subject to change in accordance with state mandates. The current program of studies includes both coursework and extensive field experience in elementary school settings to enable students to integrate theory with teaching practice. All elementary education students are required to demonstrate the Accomplished Practices (APs) through core assignments in courses and internships that are submitted to the Chalk and Wire electronic portfolio system. Students must pass all Chalk and Wire assignments and upload every assignment to their Chalk and Wire account in order to graduate from the program.

The College of Education offers a full ESOL Endorsement for all Elementary Education major graduates. The special requirements for ESOL endorsement through infusion are as follows:

1. Successful completion of TSL 4080, TSL 4081 and TSL 4251, with a minimum grade of 70 percent or better on all three sections of the ESOL Comprehensive Exam administered in the three ESOL courses;
2. Successful completion of a 20-hour early ESOL field experience in TSL 4080;
3. Successful completion of a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over 10 days; and
4. Successful completion of all Chalk and Wire assignments as required, including from the three ESOL courses and the ESOL-infused classes.
Requirements after Admission into the Elementary and Early Childhood Programs:

1. Maintain at least a 2.50 GPA in professional education and specialization coursework. If a student falls below 2.50 GPA he/she may be dismissed and/or may be required to meet with the departmental Professional Standards Committee.

2. Receive a grade of C- or higher in all required courses to progress to the following semester or he/she may be dismissed and/or required to meet with departmental Professional Standards Committee.

3. Pay for costs in addition to tuition, fees, and books such as:
   a. Chalk and Wire access codes that are purchased at the bookstore
   b. Transportation to and from school sites required in courses and internships
   c. Criminal background checks and fingerprinting for internships
   d. Assignments in some classes (e.g., printing/binding of group project reports, academic and professional portfolio, digital recording equipment, etc.)

Childhood Education and Literacy Studies Faculty
Chairperson: D. Yendol-Hoppey; Professors: I. Berson, R. Brindley, J. King, J. Richards; Associate Professors: J. Blank, D. Dennis, J. Schneider; Assistant Professors: R. Burns, J. Davis, S. Han, J. Jacobs, Instructors: B. Green, C. Lippincott, D. Stewart.

• EARLY CHILDHOOD EDUCATION: Pre-Kindergarten/Primary (BEC) (CIP = 13.1210)
  (Track 1of 3)
  TOTAL PROGRAM HOURS = 123 CREDIT HOURS

Requirements for the B.S. Degree
In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering Teacher Education Programs." All students must have completed and passed all sections of the General Knowledge Test (GKT) prior to being admitted.

Prerequisites (State Mandated Common Prerequisites)
These prerequisites must be met by transfer students as well as USF students. A grade of “C-” is the minimum acceptable grade.

- EDF X005 Introduction to the Teaching Profession 3
- EDF X085 Introduction to Diversity for Educators 3
- EME X040 Introduction to Technology for Educators 3
- In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the Florida College System institution or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

Completion of Foundations of Knowledge and Learning Core Curriculum requirements (General Education)
Foundations of Knowledge and Learning Core Curriculum (General Education) courses will be determined by the Florida College System institution or university where the student is currently earning the Associate in Arts or baccalaureate degree and will be published in the institution’s existing catalog or in the Florida College System institution Counseling Manual. (See the “Academic Policies and Procedures - Foundations of Knowledge and Learning Core Curriculum Requirements” section of the catalog.)

Professional Education Core (31 cr. hrs.):
- EDF 4124 Child Growth and Learning
- EEC 4941 Field Experience I
- EEC 4942 Field Experience II
- EEC 4943 Field Experience III
- EEC 4940 Final Internship
- EEC 4936 Senior Seminar in Early Childhood Education (Capstone)
- TSL 4080 Curriculum and Pedagogy of ESOL
- TSL 4251 Applying Linguistics to ESOL Teaching and Testing

Specialization (42 cr. hrs.):
- EDG 4909 Directed Study: Elementary Education (repeatable course)
- EDG 4909 Assessment, Evaluation, Reporting Process
- EEC 4203 Programs for Young Children
- EEC 4211 Science for Young Children
- EEC 4219 Mathematics for Young Children
EEC 4212 Integrated Curriculum: Social Sciences/Humanities & Art
EEC 4303 Creative and Affective Experiences for Young Children
EEC 4307 Cognitive Experiences for Young Children
EEC 4408 Child, Family & Teacher Relations
EEC 4604 Classroom Management and Guidance of Young Children
EEC 4706 Language and Emerging Literacy
HSC 3301 Health, Safety, Nutrition and Motor Skills for the Young Child
RED 4310 Reading & Learning to Read
EEC 4008 Teaching Literature and Writing in Early Childhood

• ELEMENTARY EDUCATION (BEE) (CIP = 13.1202)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Requirements for the B.S. Degree (BEE)

In addition to the courses listed below, students must complete “Preliminary Requirements for Students entering Teacher Education Programs.” All students must have completed and passed all sections of the General Knowledge Test (GKT) prior to being admitted.

Prerequisites (State Mandated Common Prerequisites)

These prerequisites must be met by transfer students as well as USF students. A grade of “C-” is the minimum acceptable grade.

• EDF X005 Introduction to the Teaching Profession 3
• EDF X085* Introduction to Diversity for Educators 3
• EME X040 Introduction to Technology for Educators 3

*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the Florida College System institution or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

Completion of Foundations of Knowledge and Learning Core Curriculum requirements (General Education)

Foundations of Knowledge and Learning Core Curriculum (General Education) courses will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution’s existing catalog or in the Florida College System institution Counseling Manual. (See the “Academic Policies and Procedures - Foundations of Knowledge and Learning Core Curriculum Requirements” section of the catalog.) Students are advised that the Elementary Education specialization will require an enrollment of more than the traditional four semesters of the junior and senior years in order to complete the program specialization courses and the required sequence of internship.

The order in which these courses are to be taken is designated in the program of study.

Professional Education (30 credit hours):

EDP 3271 Child Development within a School Context
EDP 3272 Learning within a School Context
EDP 4275 Enhancing Children’s Learning & Development w/i a School Context
EDF 4430 Measurement for Teachers
EEX 4070 Integrating Exceptional Students in the Regular Classroom
TSL 4080 ESOL 1 - Curriculum and Pedagogy of ESOL
TSL 4081 ESOL 2 - Literacy Development in English Language Learners
TSL 4251 ESOL 3 - Applying Linguistics to ESOL Teaching and Testing
EDE 4940 Internship: Elementary Education

Specialization (42credit hours):

EDE 4301 Instructional Planning for Diverse Learners
EDE 4941 Childhood Education Internship Level I
EDE 4942 Childhood Education Internship Level I
EDE 4943 Alternative Setting Field Experience
EDE 4944 Childhood Education Internship Level III
EDE 4504 Creating and Differentiating Learning Environments
LAE 4311 Teaching Print and Multimodal Texts in Elementary Education
LAE 4424 Teaching Children’s Literature
MAE 4310 Teaching Elementary School (K-6) Mathematics I
MAE 4326 Teaching Elementary School (K-6) Mathematics II
Department of Secondary Education

The following programs are housed in the department of Secondary Education:
- English Education with ESOL Endorsement
- Foreign Language Education with ESOL Endorsement
- Mathematics Education
- Science Education
- Social Science Education

The undergraduate programs offered by the department are designed to prepare students to meet Florida teacher certification requirements and to become highly competent secondary teachers. Specialized courses in the teaching of mathematics, science, and social science are also offered for students majoring in elementary, early childhood, and special education.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

Secondary Education Faculty


**ENGLISH EDUCATION with ESOL Endorsement (BEN) (CIP = 13.1305)**

**TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

**Requirements for the B.S. Degree**

In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering Teacher Education Programs."

The College of Education offers a full ESOL Endorsement for all English Education major graduates. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) FLE 4317 and FLE 4316 with a minimum grade of 70 percent or better on part one and part two of the ESOL Comprehensive Exam administered in the two ESOL courses; (2) a 20-hour early ESOL field experience in FLE 4317; (3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over 10 days; and (4) an ESOL binder, containing all ESOL-related assignments taken in the College of Education and an ESOL-performance Standards Checklist that documents the completion of the necessary number of standards.

**Prerequisites (State Mandated Common Prerequisites)**

These prerequisites must be met by transfer students as well as USF students. A grade of “C-“ is the minimum acceptable grade.

- EDF X005 Introduction to the Teaching Profession 3
- EDF X085 * Teaching Diversity for Educators 3
- EME X040 Introduction to Technology for Educators 3
- **SPC X608/SPC or X017 Public Speaking 3**
- **ENGX101*** 3
- **ENGX102*** 3
- **Any Literature Course that has a prefix of AML or ENL or LIT**

*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the Florida College System institution or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

**Course may apply to Foundations of Knowledge and Learning (FKL) Core Curriculum coursework.
***ENC X101 and ENC X102 or equivalent composition.

Completion of Foundations of Knowledge and Learning Core Curriculum requirements (General Education)

FKL Core Curriculum (General Education) courses will be determined by the Florida College System institution or
Recommended Courses:

- Literature Course (3 hours) - select from LIT, AML, ENL (LIT 2000 or ENL 3323 recommended)
- English Electives (9 hours) - to include advanced composition and mediacy (CRW 2100 or CRW X111 and MMC 2100 or ENC X310 and LIT 2046 or LIT X301 recommended)

Professional Education (23 credit hours):

- EDF 3604 Schools and Society (WRIN)
- EDF 3214 Human Development and Learning
- EDF 4430 Measurement for Teachers
- EEX 4070 Integrating Exceptional Students in the Regular Classroom
- FLE 4317 Teaching LEP Students K-12
- FLE 4316 Language Principles and Acquisition
- XXX XXXX A Literacy Course
- ESE 4322 Classroom Management

Specialization (21 credit hours):

- ENC 3310 Expository Writing
- One of the following:
  - LIT 3103 Great Literature of the World (Exit)
  - WST 4410 Third World Women Writers (Exit)
  - LAE 4469 Teaching World Literature to Middle and Secondary Students
- One of the following:
  - AML 3031 American Literature to 1860
  - AML 3032 American Literature 1860-1912
  - AML 3051 American Literature 1912-1945
- One of the following:
  - ENL 3015 British Literature to 1616
  - ENL 3230 British Literature 1616-1780
  - ENL 3251 British Literature 1780-1900
  - ENL 3273 British Literature 1900-1945
- One of the following:
  - LIT 3383 The Image of Women in Literature
  - LIT 4386 British and American Literature by Women (Exit)
- One of the following:
  - LIN 3010 Introduction to Linguistics
  - ENG 4060 History of the English Language
- One of the following:
  - LIN 3670 English Grammar and Usage
  - LIN 4680 Structure of American English

Additional Specialization (24 credit hours):

- LAE 4464 Adolescent Literature for Middle and Secondary Students
- LAE 4323 Methods of Teaching English: Middle School (Fall Semester Only)
- LAE 4530 Methods of Teaching English: Practicum (Fall Semester Only)
- LAE 4335 Methods of Teaching English: High School (Spring Semester Only)
- LAE 4936 Senior Seminar in English Education
- LAE 4940 Internship: English Education

English Education (BEN), BS/BA, 120, CIP 13.1305

The curricula and courses presented below are a guide for remaining on track towards the bachelor’s degree. Please note that alternative courses exist for many of the courses and that this is not an official degree plan. It is an advising tool and students should consult with an advisor in their major to ensure that all degree requirements are met.
<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Fall Semester - Year 1</strong></td>
<td>ENC 1101 Composition I 3  SP 2608 Public Speaking 3  XXX XXXX FKL Fine Arts 3  XXX XXXX FKL Humanities 3  XXX XXXX FKL Mathematics (select MGF 1106 or MGF 1107) 3</td>
<td>15</td>
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<tr>
<td><strong>Spring Semester - Year 1</strong></td>
<td>EME 2040 Introduction to Technology for Educators 3  ENC 1102 Composition II 3  XXX XXXX FKL Mathematics or Quantitative Reasoning 3  (Recommended: STA 2023 Introductory Statistics I)  XXX XXXX FKL Social sciences 3  XXX XXXX Literature Course (select LIT, AML or ENL) 3</td>
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<tr>
<td><strong>Fall Semester - Year 2</strong></td>
<td>EDF 2005 Introduction to the Teaching Profession and Field Experience 3  XXX XXXX English Elective (meets Common Prerequisites) 3  XXX XXXX FKL Human and Cultural Diversity in A Global Context 3  XXX XXXX FKL Natural Sciences (Life) 3  XXX XXXX FKL Humanities 3</td>
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<tr>
<td><strong>Spring Semester - Year 2</strong></td>
<td>AML 3031 American Literature from the Beginnings to 1860 or AML 3032 or AML 3051 3  EDF 2085 Introduction to Diversity for Educators 3  ENC 3310 Expository Writing 3  XXX XXXX FKL Natural Sciences (Physical) 3  XXX XXXX General Elective 1</td>
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<td><strong>Summer Term - Year 2</strong></td>
<td>EDF 3604 Schools and Society 3  LIT 3383 The Image of Women in Literature or LIT 4386 British and American Literature by Women 3</td>
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<td><strong>Fall Semester - Year 3</strong></td>
<td>EDF 3214 Human Development and Learning 3  ENL 3015 British Literature to 1616 or ENL 3230 or ENL 3251 or ENL 3273 3  FLE 4317 Teaching Students with Limited English Proficiency 3  LAE 4323 Methods of Teaching English: Middle School 3  LIN 3010 Introduction to Linguistics or ENG 4060 History of the English Language 3</td>
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<td><strong>Spring Semester - Year 3</strong></td>
<td>EDF 4430 Measurement for Teachers 3  ESE 4322 Classroom Management for Diverse School and Society 3  LAE 4335 Methods of Teaching English: High School 3  LAE 4464 Adolescent Literature for Middle and Secondary Students 3</td>
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<tr>
<td><strong>Summer Term - Year 3</strong></td>
<td>EEX 4070 Integrating Exceptional Students in the Regular Classroom 2  LIT 3103 Great Literature of the World or WST 4410 or LAE 4469 3</td>
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<td><strong>Fall Semester - Year 4</strong></td>
<td>EDG 4909 Directed Studies (course title: Teaching Reading in Secondary English) 3</td>
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• FOREIGN LANGUAGE EDUCATION (FLE) with ESOL Endorsement (CIP = 13.1306)

Concentration Codes: BFF=French, BFG=German, BFI=Italian, BFR=Russian, BFS=Spanish

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Requirements for the B.S. Degree

In addition to the courses listed below, students must complete “Preliminary Requirements for Students entering Teacher Education Programs.” A minimum of 30 credit hours beyond intermediate course requirements must be earned in the foreign language. Programs are available for Spanish (BFS), French (BFF), Italian (BFI), German (BFG) and Russian (BFR).

The College of Education offers a full ESOL Endorsement for all Foreign Language Education major graduates. The special requirements for ESOL endorsement through infusion are as follows:

1. Successful completion of FLE 4317 and FLE 4316 with a minimum grade of 70 percent or better on part one and part two of the ESOL Comprehensive Exam administered in the two ESOL courses;
2. Successful completion of a 20-hour early ESOL field experience in FLE 4317;
3. Successful completion of a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over 10 days; and
4. Successful completion of an ESOL binder, containing all ESOL-related assignments taken in the College of Education and an ESOL-performance Standards Checklist that documents the completion of the necessary number of standards. FLE students must also take TSL 4081 ESOL 2, Literacy Development in English Language Learners which is not part of the ESOL requirement for the FLE program, but does meet the reading requirement.

Prerequisites (State Mandated Common Prerequisites)

These prerequisites must be met by transfer students as well as USF students. A grade of “C-” is the minimum acceptable grade.

• EDF X005 Introduction to the Teaching Profession 3
• EDF X085 *Teaching Diversity for Educators 3
• EME X040 Introduction to Technology for Educators 3
• Other program prerequisites: **
  XXX XXXX (8) – Eight credits in the same foreign language at the intermediate level
  XXX XXXX (3) – Three credits in the same language of study with a cultural emphasis

*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the Florida College System institution or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

**Courses specified in this category may apply to Foundations of Knowledge and Learning Core Curriculum coursework.

Completion of Foundations of Knowledge and Learning Core Curriculum requirements (General Education)

Foundations of Knowledge and Learning Core Curriculum courses (General Education) will be determined by the Florida College System institution or university where the student is currently earning the Associate in Arts or baccalaureate degree, and will be published in the institution’s existing catalog or in the Counseling Manual. (For USF, see “Academic Policies and Procedures – Foundations of Knowledge and Learning Core Curriculum” section of the catalog.)

Professional Education (33 credit hours):

  EDF 3214 Human Development and Learning
  EDF 3604 Schools and Society (WRIN)
  EDF 4430 Measurement for Teachers
  EEX 4070 Integrating Exceptional Students in the Regular Classroom
ESE 4322 Classroom Management
FLE 4316 Language Principles and Acquisition
FLE 4317 Teaching LEP Students K-12
TSL 4081 ESOL 2 Literacy Development in English Language Learners
FLE 4936 Senior Seminar in Foreign Language Education
FLE 4940 Internship: Foreign Language Education

Teaching Specialization (39 credit hours):
1. Foreign language (27)
   - Conversation and Composition
   - Literature
   - Culture and Civilization
   - Linguistics

2. Foreign Language Education
   12 credit hours in methods of teaching a language at the elementary and secondary levels, including a practicum.
   - Fall Term:
     FLE 4314 Methods of Teaching Foreign Languages and ESOL in the Elementary School
   - Spring Term:
     FLE 4333 Methods of Teaching Foreign Languages and ESOL in the Secondary School
     FLE 4370 Practicum in Foreign Language Teaching in the Secondary School
   - Summer Term:
     FLE 4290 Technology in the Foreign and Second Language Classroom

• MATHEMATICS EDUCATION (BMA) (CIP = 13.1311) (Track 1 of 2)
  TOTAL PROGRAM HOURS = 120 CREDIT HOURS
  Requirements for the B.S. Degree
  In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering
  Teacher Education Programs (see statement under main college heading)."

Prerequisites (State Mandated Common Prerequisites):
These prerequisites must be met by transfer students as well as USF students. A grade of “C-” is the minimum
acceptable grade.
  • EDF X005 Introduction to the Teaching Profession  3
  • EDF X085* Teaching Diversity for Educators  3
  • EME X040 Introduction to Technology for Educators  3
  • MAC X311 Calculus I  4
  • MAC X312 Calculus II  4
  • MAC XXXX or MTG XXXX or MAS XXXX Mathematics Electives  4
  *In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible
courses will be determined by the community college or university where the student is currently earning the
Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.
  ** Courses specified in this category may apply to the USF Foundations of Knowledge and Learning (FKL) Core
Curriculum coursework.

Completion of Foundations of Knowledge and Learning Core Curriculum requirements (General Education):
FKL Core Curriculum courses (General Education) will be determined by the Florida College System institution or
university where the student is currently earning the Associate in Arts or baccalaureate degree, and will be published
in the institution’s existing catalog or in the Counseling Manual. (For USF, see “Academic Policies and Procedures -
Liberal Arts Requirements” section of the catalog.)

Professional Education (32 credit hours):
  EDF 3214 Human Development and Learning
  EDF 3604 Schools and Society (WRIN)
  EDF 4430 Measurement for Teachers
  EEX 4070 Integrating Exceptional Students in the Regular Classroom
  TSL 4324 ESOL Competencies and Strategies
  MAE 4940 Internship: Mathematics Education
  MAE 4936 Senior Seminar in Mathematics Education
  ESE 4322 Classroom Management
Specialization (25 credit hours):
- MAC 2313 Calculus III
- MAD 3100 Discrete Mathematics
- MAS 3105 Linear Algebra or MAS 4301 Elementary Abstract Algebra
- MAS 4214 Elementary Number Theory
- MGF 3301 Bridge to Abstract Mathematics
- MHF 4403 Early History of Math (Exit)
- MTG 3212 Geometry or MTG 4214 Modern Geometry
- STA 2023 Intro Statistics I
- or
- MAS 4301 Elementary Abstract Algebra
- MTG 3212 Geometry or MTG 4214 Modern Geometry

Additional Specialization (15 credit hours):
- MAE 4320 Middle School Methods
- MAE 4330 Senior High School Methods
- MAE 4551 Reading the Language of Mathematics
- MAE 4652 Technology for Teaching Secondary School Mathematics I
- MAE 4945 Practicum in Mathematics Education

Mathematics Education (BMA), BS/BA, 120
The curricula and courses presented below are a guide for remaining on track towards the bachelor's degree. Please note that alternative courses exist for many of the courses and that this is not an official degree plan. It is an advising tool and students should consult with an advisor in their major to ensure that all degree requirements are met.

Fall Semester - Year 1
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<td>Calculus I</td>
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<td>XXX XXXX</td>
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<td>XXX XXXX</td>
<td>FKL Social and Behavioral Sciences</td>
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<td>MAC 2312</td>
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<td>MAC 2313</td>
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<td>XXX XXXX</td>
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Spring Semester - Year 2
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<td>Introductory Statistics I</td>
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<td>XXX XXXX</td>
<td>FKL Human and Cultural Diversity in a Global Context</td>
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<td>FKL Natural Sciences (Physical)</td>
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Summer Term - Year 2
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<td>MAE 4320</td>
<td>Teaching Mathematics in the Middle Grades</td>
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<tr>
<td>MAE 4652</td>
<td>Technology for Teaching Secondary School Mathematics I</td>
<td>3</td>
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</tbody>
</table>
COLLEGE OF EDUCATION

UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG

MGF 3301  Bridge to Abstract Mathematics 3
MTG 3212  Geometry or MTG 4214 Modern Geometry 3
Total 15

Spring Semester - Year 3
MAD 3100  Discrete Mathematics 3
MAE 4330  Teaching Senior High School Mathematics 3
EEX 4070  Integrating Exceptional Students in the Regular Classroom 3
MAS 3105  Linear Algebra 3
Total 12

Summer Term - Year 3
EDF 4430  Measurement for Teachers 3
ESE 4322  Classroom Management for Diverse School and Society 3
Total 6

Fall Semester - Year 4
MAE 4551  Reading the Language of Mathematics 3
MAS 4214  Elementary Number Theory 3
XXX XXXX  Elective 2
MAE 4945  Practicum in Mathematics Education 3
MHF 4403  The Early History of Mathematics 3
Total 15

Spring Semester - Year 4
MAE 4936  Senior Seminar in Mathematics Education 3
MAE 4940  Internship: Mathematics Education 9
Total 12

TOTAL CREDIT HOURS TO DEGREE 120

Mathematics Education (BMA) with a concentration in Middle School Mathematics Education (BMM), BS/BA, 120

The curricula and courses presented below are a guide for remaining on track towards the bachelor's degree. Please note that alternative courses exist for many of the courses and that this is not an official degree plan. It is an advising tool and students should consult with an advisor in their major to ensure that all degree requirements are met.

Fall Semester
MAS 3205  Number Concepts Connections 3
STA 3027  Statistics and Probability Connections 3
MAE 3224  Middle School Mathematics Methods Course 1 3
EDM 3403  Middle-Level Education 3
MAE 3941  Practicum I: Middle School Mathematics Education 2
TSL 4324  ESOL Competencies and Strategies 3
Total 17

Spring Semester
MTG 3207  Geometry Connections 3
MAS 3108  Algebra Connections 3
MAE 3225  Middle School Mathematics Methods Course 2 3
ESE 4322  Classroom Management for Diverse School and Society 3
MAE 3942  Practicum II: Middle School Mathematics Education 2
Total 14

Summer Semester
EDF 3214  Human Development and Learning 3
EDM 3620  Teaching the Young Adolescent Learner 3
EEX 4070  Integrating Exceptional Students in the Regular Classroom 3
Total 9

Fall Semester
MAE 4551  Reading the Language of Mathematics 3
**COLLEGE OF EDUCATION**

**UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG**

EDF 4430  Measurement for Teachers  
MAE 4941  Internship I: Middle School Mathematics Education  
Total  

**Spring Semester**

XXX XXXX  Elective Course-proposed title: Contemporary Issues in STEM Education  
EDF 3604  Schools and Society  
MAE 4942  Internship II: Middle School Mathematics Education  
Total  

**TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

- **SCIENCE EDUCATION (SCE) (CIP = 13.1316)**

**Requirements for the B.S. Degree**

In addition to the courses listed below, students must complete “Preliminary Requirements for Students Entering Teacher Education Programs.”

**Prerequisites (State Mandated Common Prerequisites)**

These prerequisites must be met by transfer students as well as USF students. A grade of “C-” is the minimum acceptable grade.

- EDF X005  Introduction to the Teaching Profession  
- EDF X085  *Teaching Diversity for Educators  
- EME X040  Introduction to Technology for Educators  

Other state mandated program prerequisites:

**For Biology Teacher Education**

- Biology I and II with Labs: BSC X010/X010L and BSC X011/X011L or  
  BSC X010C and BSC X011C  
- Chemistry with Lab or Physics with Lab:  
  CHM X045/X045L or PHY X048/X048L or PHY X053/X053L or CHM X045C  
  or PHY X048C or CHM X046/2046L or PHY X049/X049L or  
  PHY X054/X054L or CHM X046C or PHY X049C  
- Calculus I: MAC X311 Calculus I or MAC X241

**For Chemistry Teacher Education**

- Chemistry with Lab: CHM X045/X045L and CHM X046/X046L  
- Physics with Lab: PHY X048/X048L and PHY X049/X049L  
  or PHY X053/X053L and PHY X054/X054L  
  or PHY X048C and PHY X049C  
  or PHY X053C and PHY X054C  
- Calculus I: MAC X311 Calculus I

**For Physics Teacher Education**

- Physics with Lab: PHY X048/X048L and PHY X049/X049L  
  or PHY X048C and PHY X049C  
- Chemistry with Lab: CHM X045/X045L and CHM X046/X046L  
  or CHM X045C and CHM X046C  
- Calculus: MAC X311, MAC X312, MAC X313

*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required.

Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

**Courses specified in this category may apply to Foundations of Knowledge and Learning Core Curriculum coursework.**

**Completion of Foundations of Knowledge and Learning Core Curriculum requirements (General Education)**

Foundations of Knowledge and Learning (FKL) Core Curriculum courses (General Education) will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution’s existing catalog or in the Counseling Manual. (For USF, see “Academic Policies and Procedures – Foundations of Knowledge and Learning Core Curriculum” section of the catalog.)

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Professional Education Core for all Science Education Concentrations (32 credit hours):
The required courses in the professional education core are as follows:
EDF 3214 Human Development and Learning
EDF 3604 Schools and Society (WRIN)
EDF 4430 Measurement for Teachers
EEX 4070 Integrating Exceptional Students in the Regular Classroom
ESE 4322 Classroom Management for Diverse Schools and Society
SCE 4940 Internship: Science Education
SCE 4936 Senior Seminar in Science Education (CPST)
SCE 4945 Practicum in Secondary Science Education
TSL 4324 ESOL Competencies and Strategies

Biology Education
Prerequisites (16 credit hours):
BSC 2010 Cellular Processes*
BSC 2010L Cellular Processes Lab*
BSC 2011 Biodiversity*
BSC 2011L Biodiversity Lab*
CHM 2045, 2045L General Chemistry I and Lab*
PHY 2048, 2048L General Physics I and Lab (with Calculus) 
or PHY 2053, 2053L General Physics and Lab*
MAC 2281 Engineering Calculus I or MAC 2311 Calculus I

Specialization (33 credit hours):
PCB 3023, 3023L Cell Biology and Lab
PCB 3043, 3043L Principles of Ecology and Lab
PCB 3063 General Genetics
PCB 4674 Organic Evolution
BSC 4057 Environmental Issues (Exit)
SCE 4305 Communication Skills in the Science Classroom
SCE 4320 Teaching Methods in Middle Grades Science
SCE 4330 Teaching Methods in Secondary School Science
SCE 4863 Science, Technology, Society Interaction
MAC 2311 Calculus I or MAC 2241

Science Education (SCE), Biology (BSB), BS/BA, 120 – CIP 13.1316 (Track 1 of 5)
The curricula and courses presented below are a guide for remaining on track towards the bachelor’s degree. Please note that alternative courses exist for many of the courses and that this is not an official degree plan. It is an advising tool and students should consult with an advisor in their major to ensure that all degree requirements are met.

Fall Semester - Year 1
ENC 1101 Composition I 3
CHM 2045 General Chemistry I or PHY 2048 or PHY 2053 3
CHM 2045L General Chemistry I Laboratory or PHY 2048L or PHY 2053L 1
XXX XXXX FKL Social and Behavioral Sciences 3
XXX XXXX FKL Humanities 3
Total 13

Spring Semester - Year 1
ENC 1102 Composition II 3
EDF 2005 Introduction to the Teaching Profession and Field Experience 3
XXX XXXX FKL Humanities 3
MAC 2311 Calculus I 4
Total 13

Fall Semester - Year 2
BSC 2010 Biology I - Cellular Processes 3
BSC 2010L Biology I Cellular Processes Laboratory 1
EME 2040 Introduction to Technology for Educators 3
XXX XXXX FKL Human and Cultural Diversity in a Global Context 3
XXX XXXX FKL Social and Behavioral Sciences 3
### Professional Education Core for all Science Education Concentrations (32 credit hours):
The required courses in the professional education core are as follows:
- **EDF 3214**  Human Development and Learning
- **EDF 3604**  Schools and Society (WRIN)
- **EDF 4430**  Measurement for Teachers
- **EEX 4070**  Integrating Exceptional Students in the Regular Classroom
Chemistry Education

Prerequisites (16 credit hours):
- CHM 2045 General Chemistry I*
- CHM 2045L General Chemistry Lab*
- CHM 2046 General Chemistry II*
- CHM 2046L General Chemistry II Lab*
- PHY 2053 General Physics I
- PHY 2053L General Physics I Lab*
- MAC 2311 Calculus

Specialization (27 credit hours):
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab
- CHM 3120C Elementary Analytical Chemistry
- CHM 3610 Intermediate Inorganic Chemistry
- CHM 3610L Intermediate Inorganic Chemistry Lab
- CHM 4070 Historical Perspectives in Chemistry
- SCE 4320 Teaching Methods in Middle Grades Science
- SCE 4330 Teaching Methods in Secondary School Science
- SCE 4305 Communication Skills in the Science Classroom
- SCE 4863 Science, Technology, Science Interaction

Science Education (SCE), Chemistry (BSC), BS/BA, 120 CIP 13.1316 (Track 2 of 5)

The curricula and courses presented below are a guide for remaining on track towards the bachelor’s degree. Please note that alternative courses exist for many of the courses and that this is not an official degree plan. It is an advising tool and students should consult with an advisor in their major to ensure that all degree requirements are met.

Fall Semester - Year 1
- ENC 1101 Composition I 3
- MAC 2311 Calculus I 4
- XXX XXXX FKL Social and Behavioral Sciences 3
- XXX XXXX FKL Humanities 3
- Total 13

Spring Semester - Year 1
- ENC 1102 Composition II 3
- EME 2040 Introduction to Technology for Educators 3
- XXX XXXX FKL Mathematics 3
- XXX XXXX FKL Humanities 3
- XXX XXXX Elective 4
- Total 16

Fall Semester - Year 2
- CHM 2045 General Chemistry I 3
- CHM 2045L General Chemistry I Laboratory 1
- EDF 2005 Introduction to the Teaching Profession and Field Experience 3
- XXX XXXX FKL Social and Behavioral Sciences 3
- XXX XXXX FKL Human and Cultural Diversity in a Global Context 3
- Total 13

Spring Semester - Year 2
- PHY 2048 General Physic I – Calculus Based or PHY 2053 General Physics I 3
- PHY 2048L General Physic I – Calc. Lab or PHY 2053 General Physics I Lab 1
- EDF 2085 Teaching Diversity for Educators and Field Experience 3
- EEX 4070 Integrating Exceptional Students in the Regular Classroom 2
### Physics Education

#### Professional Education Core for all Science Education Concentrations (32 credit hours):

The required courses in the professional education core are as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>EDF 3214</td>
<td>Human Development and Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDF 3604</td>
<td>Schools and Society (WRIN)</td>
<td>3</td>
</tr>
<tr>
<td>EDF 4430</td>
<td>Measurement for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>EEX 4070</td>
<td>Integrating Exceptional Students in the Regular Classroom</td>
<td>3</td>
</tr>
<tr>
<td>ESE 4322</td>
<td>Classroom Management for Diverse Schools and Society</td>
<td>3</td>
</tr>
<tr>
<td>SCE 4936</td>
<td>Senior Seminar in Science Education</td>
<td>3</td>
</tr>
<tr>
<td>SCE 4940</td>
<td>Internship: Science Education</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

### Physics Education

**Prerequisites (16 credit hours):**

- CHM 2045 General Chemistry I*
CHM 2045L General Chemistry Lab*
CHM 2046 General Chemistry II*
CHM 2046L General Chemistry II Lab*
PHY 2048 General Physics I – Calculus Based
PHY 2048L General Physics I – Calculus Based Lab*
PHY 2049 General Physics II – Calculus Based
PHY 2049L General Physics II – Calculus Based Lab*

Specialization (39 credit hours):
PHY 2020 Conceptual Physics
PHY 3101 Modern Physics
PHY 3221 Mechanics I
PHY 3323C Electricity and Magnetism
PHZ 3113 Mathematical Methods in Physics
SCE 4320 Teaching Methods in Middle Grade Science
SCE 4330 Teaching Methods in Secondary School Science
SCE 4305 Communication Skills in the Science Classroom
SCE 4863 Science, Technology, Society Interaction
MAC 2311 Calculus I
MAC 2312 Calculus II
MAC 2313 Calculus III

*May be part of Foundations of Knowledge and Learning Core Curriculum Requirements

Science Education (SCE), Physics (BSY), BS/BA, 120 CIP 13.1316 (Track 4 of 5)
The curricula and courses presented below are a guide for remaining on track towards the bachelor’s degree. Please note that alternative courses exist for many of the courses and that this is not an official degree plan. It is an advising tool and students should consult with an advisor in their major to ensure that all degree requirements are met.

Fall Semester - Year 1
ENC 1101 Composition I 3
MAC 2311 Calculus I 4
PHY 2020 Conceptual Physics 3
XXX XXXX FKL Fine Arts 3
XXX XXXX FKL Social and Behavioral Sciences 3
Total 16

Spring Semester- Year 1
ENC 1102 Composition II 3
CHM 2045 General Chemistry I 3
CHM 2045L General Chemistry I Lab 1
MAC 2312 Calculus II 4
XXX XXXX FKL Social and Behavioral Sciences 3
Total 14

Fall Semester - Year 2
EDF 2085 Teaching Diversity for Educators and Field Experience 3
MAC 2313 Calculus III 4
PHY 2048 General Physics I – Calculus Based 3
PHY 2048L General Physics I Calculus Based Laboratory 1
XXX XXXX FKL Humanities 3
Total 14

Spring Semester - Year 2
CHM 2046 General Chemistry II 3
CHM 2046L General Chemistry II Lab 1
EDF 2005 Introduction to the Teaching Profession and Field Experience 3
EME 2040 Introduction to Technology for Educators 3
PHY 2049 General Physics II – Calculus Based 3
PHY 2049L General Physics II Calculus Based Laboratory 1
Total 14
### Summer Term - Year 2
- EDF 3214 Human Development and Learning 3
- EDF 3604 Schools and Society 3
- XXX XXXX FKL Humanities 3
- Total 9

### Fall Semester - Year 3
- EDF 4430 Measurement for Teachers 3
- ESE 4322 Classroom Management for Diverse School and Society 3
- SCE 4305 Communication Skills in the Science Classroom 3
- SCE 4320 Teaching Methods in Middle Grade Science 3
- SCE 4945 Practicum in Science Education 3
- Total 15

### Spring Semester - Year 3
- TSL 4324 ESOL Competencies and Strategies 3
- PHY 3101 Modern Physics 3
- PHY 3221 Mechanics I 3
- SCE 4330 Teaching Methods in the Secondary School-Sciences 3
- Total 12

### Fall Semester - Year 4
- PHY 3323 Electricity and Magnetism I 3
- SCE 4863 Technology, Society Interaction 3
- PHZ 3113 Mathematical Methods in Physics 3
- XXX XXXX FKL Human and Cultural Diversity in a Global Context 3
- Total 12

### Spring Semester - Year 4
- EEX 4070 Integrating Exceptional Students in the Regular Classroom 3
- SCE 4936 Senior Seminar in Science Education 3
- SCE 4940 Internship: Science Education 8
- Total 14

### TOTAL CREDIT HOURS TO DEGREE 120

Science Education (SCE) with a concentration in Middle School Science Education (BDS) BS/BA, 120

The curricula and courses presented below are a guide for remaining on track towards the bachelor’s degree. Please note that alternative courses exist for many of the courses and that this is not an official degree plan. It is an advising tool and students should consult with an advisor in their major to ensure that all degree requirements are met.

### Fall Semester
- XXX XXXX Elective Course-proposed title: Earth Space Science Fundamentals 3
- SCE 4320 Teaching Methods in Middle Grade Science 3
- EDM 3403 Middle-Level Education 3
- SCE 3941 Practicum I: Middle School Science Education 2
- Total 17

### Spring Semester
- BSC 3813 Life Science Fundamentals for Teachers 4
- SCE 4305 Communication Skills in the Science Classroom 3
- SCE 4330 Methods of Secondary Science Education 3
- ESE 4322 Classroom Management for Diverse School and Society 3
- SCE 3942 Practicum II: Middle School Science Education 2
- Total 15

### Summer Semester
- EDF 3214 Human Development and Learning 3
- EDM 3620 Teaching the Young Adolescent Learner 3
- EEX 4070 Integrating Exceptional Students in the Regular Classroom 3
• SOCIAL SCIENCE EDUCATION (BSS) (CIP = 13.1317)  
TOTAL PROGRAM HOURS = 120 CREDIT HOURS  

Requirements for the B.S. Degree  
In addition to the courses listed below, students must complete "Preliminary Requirements for Students entering Teacher Education Programs." It is recommended that students pursue a double major in Social Science Education with History or one of the Social Sciences.

Prerequisites (State Mandated Common Prerequisites)  
These prerequisites must be met by transfer students as well as USF students. A grade of "C-" is the minimum acceptable grade.

- EDF X005 Introduction to the Teaching Profession 3  
- EDF X085 Teaching Diversity for Educators 3  
- EME X040 Introduction to Technology for Educators 3  

Other program prerequisites**:  
AMH X010 3  
AMH X020 3  
POS X041 3  
ECO XXXX or SOC XXXX or ANT XXXX or PSY XXXX or GEA XXXX 3  

*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the Florida College System institution or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

** Courses specified in this category may apply to Foundations of Knowledge and Learning (FKL) Core Curriculum coursework.

Completion of Foundations of Knowledge and Learning Core Curriculum requirements (General Education)  
Foundations of Knowledge and Learning Core Curriculum courses (General Education) will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution's existing catalog or in the Counseling Manual. (For USF, see "Academic Policies and Procedures – Foundations of Knowledge and Learning Core Curriculum" section of the catalog.)

Professional Education Core (18 credit hours):  
EDF 3214 Human Development and Learning  
EDF 3604 Schools and Society (Exit)  
EDF 4430 Measurement for Teachers  
EEX 4070 Integrating Exceptional Students in the Regular Classroom  
TSL 4324 ESOL Competencies and Strategies  
ESE 4322 Classroom Management for Diverse School and Society

Social Sciences Specialization (45 credit hours):  
AMH 2010 American History I  
AMH 2020 American History II  
AMH 3421 Early Florida  
AMH 3423 Modern Florida
## Social Science Education (BSS), BS/BA, 120

The curricula and courses presented below are a guide for remaining on track towards the bachelor’s degree. Please note that alternative courses exist for many of the courses and that this is not an official degree plan. It is an advising tool and students should consult with an advisor in their major to ensure that all degree requirements are met.

### Fall Semester - Year 1

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<th>Course Title</th>
<th>Credits</th>
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<td>American History I</td>
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<td>ENC 1101</td>
<td>Composition I</td>
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<tr>
<td>XXX XXXX</td>
<td>FKL Fine Arts</td>
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<tr>
<td>XXX XXXX</td>
<td>FKL Mathematics (Recommended: MGF 1106 or MGF 1107)</td>
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<tr>
<td>SLS 1101</td>
<td>The University Experience</td>
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### Spring Semester - Year 1

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<td>EDF 2005</td>
<td>Introduction to the Teaching Profession</td>
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<tr>
<td>ENC 1102</td>
<td>Composition II</td>
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<tr>
<td>XXX XXXX</td>
<td>FKL Mathematics or Quantitative Reasoning</td>
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<tr>
<td>(Recommended: STA 2023 Introductory Statistics I)</td>
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<tr>
<td>XXX XXXX</td>
<td>FKL Natural Sciences (Life)</td>
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### Fall Semester - Year 2

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<td>Economic Principles (Macroeconomics) or ECO 1000 Basic Economics</td>
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<td>EME 2040</td>
<td>Introduction to Technology for Educators</td>
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<td>GEA 2000</td>
<td>World Regional Geography</td>
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<tr>
<td>XXX XXXX</td>
<td>FKL Natural Sciences (Physical)</td>
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### Spring Semester - Year 2

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<tr>
<td>ANT 2000</td>
<td>Introduction to Anthropology or ANT 2410 Cultural Anthropology</td>
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### COLLEGE OF EDUCATION

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<td>Introduction to Diversity for Educators</td>
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<td>HUM 2230</td>
<td>Studies in Culture: The Renaissance through the Twentieth Century</td>
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<tr>
<td>POS 2041</td>
<td>American National Government or POS 2080 The American Political Tradition</td>
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<tr>
<td>SYG 2000</td>
<td>Introduction to Sociology or SYG 2010 Contemporary Social Problems</td>
<td>3</td>
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**Fall Semester - Year 3**

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<td>EDF 3604</td>
<td>Schools and Society (WRIN)</td>
<td>3</td>
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<tr>
<td>HUM 2210</td>
<td>Studies in Culture: The Classical Through Medieval Periods</td>
<td>3</td>
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<td>INR 3018</td>
<td>World Ideologies</td>
<td>3</td>
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<td>POS 2112</td>
<td>State and Local Government and Politics</td>
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<td>XXX XXXX</td>
<td>Social Science Course (must be a 3000-level or 4000-level course)</td>
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**Spring Semester - Year 3**

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<tr>
<td>AMH 3421</td>
<td>Early Florida</td>
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<tr>
<td>EDF 3214</td>
<td>Human Development and Learning</td>
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<td>EDF 4430</td>
<td>Measurement for Teachers</td>
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<tr>
<td>TSL 4324</td>
<td>ESOL Competencies and Strategies</td>
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<tr>
<td>SSE 4333</td>
<td>Teaching Middle Grades Social Science</td>
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**Summer Term - Year 3**

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<th>Course Title</th>
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<tr>
<td>ESE 4322</td>
<td>Classroom Management for Diverse School and Society</td>
<td>3</td>
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<tr>
<td>SSE 4600</td>
<td>Reading and Basic Skills in the Social Studies Class</td>
<td>3</td>
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<tr>
<td>XXX XXXX</td>
<td>Other Cultures Historical Perspectives Course (select AFH, ASH or LAH)</td>
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**Fall Semester - Year 4**

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<th>Course Title</th>
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<tr>
<td>AMH 3423</td>
<td>Modern Florida</td>
<td>3</td>
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<tr>
<td>EEX 4070</td>
<td>Integrating Exceptional Students in the Regular Classroom</td>
<td>3</td>
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<td>Teaching Social Science Themes</td>
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**Spring Semester - Year 4**

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<td>SSE 4936</td>
<td>Senior Seminar in Social Science Education</td>
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<tr>
<td>SSE 4940</td>
<td>Internship: Social Science Education</td>
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**TOTAL CREDIT HOURS TO DEGREE**

120

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**Department of Educational Measurement and Research**

The Department of Educational Measurement and Research offers EDF 4430, Measurement for Teachers, that provides students with the measurement and evaluation skills and dispositions they need to be effective classroom teachers. Students use curriculum-based, learner-based, context-based, and professionally-based standards to develop and use objective, product, and live performance tests; attitude observation and self-report assessments; they analyze and evaluate learner progress, their tests, and their instruction; and they communicate learner progress using portfolios, grades, and standardized test profiles. The course is delivered using web-based distance and web-enhanced laboratory formats.

**Educational Measurement and Research Faculty**

*Chairperson: J.M. Ferron; Professors: R. F. Dedrick; J. M. Ferron, J. D. Kromrey; Associate Professor: L. Rodriguez-Campos; Assistant Professor: Y.-H. Chen; C. DeLuca, E. S. Kim; Visiting Instructor: G. D. Lunsford.*

**School of Physical Education & Exercise Science**

The School of Physical Education & Exercise Science offers a variety of Elective Physical Education courses and conducts a Physical Education Teacher Preparation Program, and an Exercise Science Program. For Athletic Training, please refer to the College of Medicine - Department of Orthopaedics and Sports Medicine.
Physical Education Elective Program

Physical Education elective offerings in the School of Physical Education and Exercise Science are designed to provide opportunities for all students in the University to acquire knowledge and movement skills related to an active healthy lifestyle. Laboratory experiences in over twenty-five different exercise and sports activities allow students to select and develop proficiency appropriate for leisure pursuit and personal development. Special competency courses provide for in-depth study in such areas as personal wellness, current issues in sports, and first aid.

• PHYSICAL EDUCATION and EXERCISE SCIENCE (PET) (CIP = 13.1314)

Students must enroll in one of the following programs: a) Physical Education K-12 (Florida Teacher Certification);

or b) Exercise Science.

Requirements for the B.S. Degree (PET, BPW)

The two-year programs are offered beginning in the junior year and include mandatory attendance during the summer session between the junior and senior years. Students in Physical Education and Exercise Science may enter in the Fall Semester of each year only. Students proceed through the programs in cohorts and are required to complete all required courses each semester with a grade of "C-" or better in order to progress to the next semester. Students who do not complete the requirements will be dismissed from the program and may reapply for the next cohort.

For K-12 Physical Education Major (PET):

The physical education program is a full-time program. Students must be available for classes from 8:00 am - 5:00 pm, Monday through Friday each semester. Additional time commitments may be necessary for course work in the evenings. Entrance requirements are:

1. An overall GPA of 2.50.
2. Completion of all the following “common statewide prerequisites” for physical education programs prior to fall admission with a C- or higher.

Prerequisites (State Mandated Common Prerequisites)

These prerequisites must be met by transfer students as well as USF students.

• EDF X005 Introduction to the Teaching Profession 3
• EDF X085* Teaching Diversity for Educators 3
• EME X040 Introduction to Technology for Educators 3
• Other program prerequisites**

Anatomy & Physiology I 3-4
Care and Prevention of Athletic Injuries or Anatomy & Physiology II w/ lab 3-4
Skill Development Courses in Physical Activities 4-5

*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

** Courses specified in this category may apply to Foundations of Knowledge and Learning Core Curriculum coursework.

Completion of Foundations of Knowledge and Learning Core Curriculum requirements (General Education)

Foundations of Knowledge and Learning Core Curriculum courses (General Education) will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution’s existing catalog or in the Counseling Manual. (For USF, see “Academic Policies and Procedures - Foundations of Knowledge and Learning Core Curriculum Requirements” section of the catalog.)

Requirements, After Admission:

Students accepted into the physical education program must meet the following additional requirements:

1. Sign an agreement to abide by the standards set forth in the School of Physical Education and Exercise Science Student Handbook on Professional Behavior and Ethical Conduct.
2. Pay for costs in addition to tuition, fees, and books such as:
   a. Attendance at the state professional organization conference (minimally 1 year)
   b. Student membership in the state physical education professional organizations
   c. Transportation to and from school sites required in courses and internships
   d. Physical Education Teacher Education uniform for internships
   e. Criminal background checks and finger printing for internships
Assignments in some classes (e.g., printing/binding of group project reports, academic and professional portfolio, professional file, etc.)

g. Electronic assignment portfolio throughout program

4. Receive a grade of C- or higher in all required courses and maintain a 2.50 GPA in order to progress to the next semester.

5. Complete professional development plans throughout the program.

6. Complete and pass individual development plans in identified skill areas during the program.

Semester I:
EDF 3122  Learning and the Developing Child or EDF 4131 Learning and the Developing Adolescent
TSL 4324  ESOL Competencies and Strategies
PET 3421  Curriculum & Instruction in Physical Education
PET 4432  Instructional Design & Content: Physical Education Elementary
PET 4942  Physical Education Pre-Internship: Elementary
Total    15

Semester II:
EDF 3604  Schools and Society (WRIN)
PET 4510  Measurement and Evaluation in Physical Education
PET 3031  Motor Behavior
PET 3441  Instructional Design & Content: Middle School Physical Education
PET 4844  Methods of Using Technology in Physical Education
Total    15

Semester III:
PET 4742  Secondary PE Methods: Physical Activity & Fitness Opportunities
RED 4310  Reading and Learning to Read
PET 3640  Adapted Physical Education
PET 4304  Principles and Issues in Coaching
Total    12

Semester IV:
PET 4820  Sport Skill Proficiency
PET 4380  Applied Exercise Science
PET 4401  Class Management, Safety, Ethics, Law and Organization and Administration of Physical Education
PET 4442  Instructional Design & Content: Physical Education Secondary
PET 4944  Physical Education Pre-Internship: Secondary
Total    14

Semester V
PET 4946  Internship in Physical Education: Elementary (Capstone)
PET 4947  Internship in Physical Education: Secondary
SMP 3012  Issues in Sport
Total    15

For Exercise Science Major (BPW)

Students who successfully complete the undergraduate Exercise Science Major earn a B.S. degree in Physical Education with a Specialization in Exercise Science. This program is offered in the School of Physical Education & Exercise Science in the College of Education. The Exercise Science program prepares students for a variety of entry level positions in the exercise science field. See our website (http://www.coedu.usf.edu/main/departments/physed/programs/progEs.html) for the types of jobs and job settings available as well as other important information. Successful completion of the program qualifies students for national professional certifications such as ACSM’s Certified Health Fitness Specialist (HFS) and the National Strength and Conditioning Association’s (NSCA’s) Certified Strength and Conditioning Specialist (CSCS).

The course work is offered over a two-year period beginning in the fall semester of the student’s junior year as shown below. The summer session (Session C – 10 weeks) between the junior and senior year is mandatory. Students can enter the program during the fall semester only and they progress through the program in a cohort.

Completion of Foundations of Knowledge and Learning Core Curriculum requirements (General Education)

Foundations of Knowledge and Learning Core Curriculum courses (General Education) will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or
baccalaureate degree, and will be published in the institution’s existing catalog. (For USF, see “Academic Policies and Procedures - Foundations of Knowledge and Learning Core Curriculum Requirements” section of the catalog.)

**Major Requirements:**

The exercise science program is a full-time program. Students must be available for classes from 8:00 am – 5:00 pm, Monday through Thursday each semester. Additional time commitments may be necessary for course work such as PET 3940 (Practicum) and PET 4941 (Internship). The exercise science program is a **limited access** program meaning that enrollment is limited to 30 students each fall semester. Selection of the 30 students is based on the following criteria:

1. An overall GPA of 2.50. This is a College of Education criterion.
2. Completion of all the following “common statewide prerequisites” for exercise science programs by the spring semester prior to fall admission with a C- or higher.
3. Students with the top 30 composite GPAs will be selected for admission into the program. A composite GPA score will be calculated for each student by adding 30 percent of the overall GPA and 70 percent of the common statewide prerequisite GPA.

**Prerequisites (State Mandated Common Prerequisites):** These prerequisites must be met by transfer students as well as USF students. A grade of “C-” is the minimum acceptable grade.

- Human Anatomy and Physiology I and lab or Human Anatomy and lab: 4
- Human Anatomy and Physiology II and lab or Human Physiology and lab: 4
- College Algebra or higher: 3
- Statistics or Pre-Calculus: 3
- General Psychology: 3
- General Nutrition: 3
- Survey of Chemistry or higher and lab: 4
- Public Speaking: 3

The following are “recommended” prerequisite courses and the grades in these courses will not be used to calculate the “common statewide prerequisite” GPA for admission.

1. PEM 2131 Weight Training: 2
2. HLP 2081 Personal Wellness: 3

**NOTE:** Though no computer course is recommended, students need to possess excellent computer skills, e.g., MS applications.

**Admission Criteria:**

Students must:

1. Apply to the University of South Florida.
2. Submit a completed application to the Exercise Science program, including official transcripts between June 1st and July 15th for fall admission.
3. Complete the Foundations of Knowledge and Learning Core Curriculum requirements for the University of South Florida or for the Florida public college or university in which the student took his or her Foundations of Knowledge and Learning Core Curriculum requirements.

**Requirements, After Admission:**

By August 1st, students will be informed if they have been accepted into the program. Students accepted into the program must inform the College of Education advising office by August 15th that they will or will not be enrolling in fall classes. Once admitted, students will need to meet the following requirements:

1. Complete an online College of Education Orientation and attend an Exercise Science Orientation on Wednesday morning of the week prior to the beginning of the fall semester.
2. Sign an agreement to abide by the standards set forth in the School of Physical Education & Exercise Science **Student Handbook on Professional Behavior and Ethical Conduct**.
3. Pay for costs in addition to tuition, fees, and books such as:
   a. Material and supply fee for PET 3384
   b. Student membership for the Exercise Science student organization
   c. Professional liability insurance
   d. Student membership in at least one professional organization
   e. Transportation to and from field experiences required in courses including the practicum and internship
   f. Possible requirements of practicum/internship sites such as health/medical exam, immunizations/vaccines, criminal background check, finger printing, drug/alcohol screening, personal health insurance, uniforms, and parking
   g. Possible costs associated with obtaining physician clearance (e.g., medical exam and/or tests) prior to
participation in physical activity/exercise. Students complete a Pre-Activity Screening Questionnaire (PASQ) based on American College of Sports Medicine guidelines to determine if physician clearance is needed.

h. Assignments in some classes (e.g., printing/binding of group project reports, academic and professional portfolio, etc.)

4. Receive a grade of C- or higher in all required courses and maintain a 2.5 GPA (overall and in major) in order to progress to the next semester.
5. Complete 10 hours of volunteer community service for a non-profit health care organization.

Semester 1 Fall (12 hours)
PET 3211 Stress Management 2
PET 3314 Professional Development Seminar 1
APK 3120 Exercise Physiology 3
PET 3361 Nutrition for Fitness and Sport 3
PET 4219 Exercise Psychology 3

Semester 2 Spring (15 hours)
PET 3312 Biomechanics 3
PET 3384 Exercise Testing and Prescription 3
PET 3404 Emergency Response and Planning 3
PET 4402 Planning and Evaluating Fitness/Wellness Program 3
XXX XXXX Capstone Course–Writing Intensive 3

Semester 3 Summer (9 hours)
PET 3076 Fitness Throughout the Lifespan 3
PET 3365 Physical Activity Epidemiology 3
PET 4093 Strength and Conditioning 3

Semester 4 Fall (12 hours)
PET 3713 Theory and Practice of Teaching Group Exercise 3
PET 4088 Individualized Fitness/Wellness Programming (Capstone Course) 3
PET 4413 Administration of Fitness/Wellness Centers 3
PET 4550 Clinical Exercise Testing and Prescription 3

Semester 5 Spring (12 hours)
PET 4941 Internship in Fitness/Wellness 9
PET XXXX Elective of student’s choice 3

Physical Education and Exercise Science Faculty
Director: S. Sanders; Professors: J. Eickhoff-Shemek, F.N. Faucette, S. Sanders, M. J. Stewart, C.D. Ashley; Associate Professor: M. Kilpatrick; Assistant Professors: B. Campbell, S. Haichun, Lisa Hansen, Sara Flory.

Department of Psychological and Social Foundations of Education
The Department of Psychological and Social Foundations of Education does not offer a specific undergraduate major or degree program, but provides courses for all students majoring in the wide array of undergraduate programs available in the College of Education. These courses contribute to the students’ understanding of the general education enterprises and are considered foundational to later professional specialization. Consequently, these courses should be taken early in the professional program, typically in the junior year. In addition, the department offers an undergraduate minor in Educational Foundations and Research.

Prerequisite Pre-Education courses (9 hours):
EDF 2005 Introduction to the Teaching Profession 3
EDF 2085 Introduction to Diversity for Educators 3
EME 2040 Introduction to Technology for Educations 3

Professional Education Core (34-39 cr. hrs.):
EDF 3122 Learning and the Developing Child 3
EDF 3214 Human Development and Learning 3
EDF 3514 History of Education in the United States 3
EDF 3604 Schools and Society 3
EDF 4111 Child Growth and Learning 3
EDF 4131 Learning and the Developing Adolescent 3

In addition the department offers:
EDF 3228 Human Behavior and Environmental Selection 3
EDF 4005 Independent Study: Educational Foundations 1-3
The Counselor Education program offers undergraduate courses focusing on human services skill development, decision-making and personal growth. Course content contributes to student success in academic and personal endeavors and may serve to orient students to post-graduate work in human services fields.

MHS 4052 Human Relations Skills in Counseling 3
MHS 4905 Independent Study: Guidance and Counseling Education 1-4
SDS 4040 Introduction to Student Personnel Work in Higher Education 2

Requirements for the Minor in Educational Foundations and Research (EFR)
Minimum of 18 hours
Required Courses:
- EDF 3514 History of Education in the U.S. 3
- EEX 4742 Narrative Perspectives on Exceptionality 3
- EDF 4490 Studies in Research Design 3
Other Specifications:
- EDF 3604 Schools and Society or SYO 4250 Sociology of Education 3
- DEP 4005 Developmental Psychology or DEP 3103 Child Psychology 3
- EDF 3122 Learning and the Developing Child or EDF 4111 Child Growth and Learning 3

No minimum GPA average, but all course grades must be C or above.

Psychological and Social Foundations Faculty

Department of Special Education
The Department of Special Education prepares teachers to work with children who have emotional and behavioral disabilities, intellectual disabilities and specific learning disabilities. The undergraduate program is a state-approved program that leads to certification in Exceptional Student Education (ESE).

Students are required to meet University and College of Education entrance requirements prior to enrollment in the Department. Upon admission, students affiliate with the campus on which they wish to take their program of studies. Students may not register for courses on other campuses without permission. For USF Tampa, students are assigned to cohorts. All courses are taken with the assigned cohort. The program sequence includes four semesters of part-time field experience and one semester of full-time internship. All part-time field experiences must be successfully completed as a member of a cohort concurrently enrolled in linked specified courses in designated local schools. Final internships are assigned only to designated school districts where partnerships exist. Field experiences occur during the first semester of a student’s enrollment with increasing involvement throughout the program. Students are responsible for providing transportation to their field-experience sites. Cohorts are seated in the fall semester of each year. Students must complete all required courses with a grade of C or better and successfully complete program key assessments in order to progress to the next semester.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

• EXCEPTIONAL CHILD EDUCATION with ESOL & Reading Endorsement (CIP = 13.1001)

The College of Education offers a full ESOL Endorsement for all Special Education major graduates. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) FLE 4317 and FLE 4316 with a minimum grade of 70% or better on part one and part two of the ESOL Comprehensive Exam administered in the two ESOL courses; (2) a 20-hour early ESOL field experience in FLE 4317; (3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over a 10 days; and (4) an ESOL binder, containing all ESOL-related assignments taken in the College of Education and an ESOL-performance Standards Checklist that documents the completion of the necessary number of standards.

The special education requirements for the Reading Endorsement through infusion are as follows: (1) completion of specialized courses with a grade of C or S; (2) completion of RED4511, RED4310, and LAE4314 with a grade of C; (3) a 60 hour field experience with a grade of S where students demonstrate application of all reading competencies,
and (4) a Reading Endorsement binder containing the Demonstration of Accomplishment Documentation Form and supporting artifacts.

**Prerequisites (State Mandated Common Prerequisites)**
These prerequisites must be met by transfer students as well as USF students. A grade of “C-“ is the minimum acceptable grade.

- EDF X005 Introduction to the Teaching Profession  
  3
- EDF X085* Teaching Diversity for Educators  
  3
- EME X040 Introduction to Technology for Educators  
  3

*In addition to EDF X085, a minimum of 6 semester hours with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. Foreign language courses may be used to meet this requirement.

**Completion of Foundations of Knowledge and Learning Core Curriculum requirements (General Education):**
Foundations of Knowledge and Learning Core Curriculum courses (General Education) will be determined by the Florida College System institution or university where the student currently is earning the Associate in Arts or baccalaureate degree, and will be published in the institution’s existing catalog or in the Counseling Manual. (For USF, see “Academic Policies and Procedures - Foundations of Knowledge and Learning Core Curriculum Requirements” section of the catalog.)

**Professional Education Core (27 credit hours):**
The required courses in the professional education core are as follows:

- EEX 4941  Practicum in ESE  
  Level 1 (1 hour); Level 2 (1 hour);  
  Level 3 (1 hour); Level 4 (1 hour)
- EDF 3122  Learning and the Developing Child
- EDF 3604  Social Foundations of Education (Exit)
- EDF 4430  Measurement for Teachers
- FLE 4316  Language Principles and Acquisition
- FLE 4317  Teaching LEP Students K-12
- EEX 4944  Internship: Exceptional Student Education

**Area of Specialization**

**Exceptional Student Education**
Students seeking the B.S. degree with certification in Exceptional Student Education are required to take the following courses:

- EEX 4202  Exceptional Education Core Competencies:  Context and Foundations
- EEX 4240  Exceptional Education Core Competencies:  Beginning to Teach
- EEX 4241  Exceptional Education Core Competencies:  Creating Effective  
  Learning Environments
- EEX 4242  Exceptional Education Core Competencies:  Enhancing Expertise in  
  Teaching and Instructional Decision Making
- EEX 4244  Exceptional Education Core Competencies:  Becoming a Special  
  Education Teacher
- EEX 4742  Narrative Perspectives on Exceptionality:  Cultural and  
  Ethical Issues (Exit)
- LAE 4314  Teaching Writing
- MAE 4310  Teaching Elementary School Mathematics I
- RED 4310  Early Literacy Learning
- RED 4511  Linking Literature Assessment to Instruction

**Special Education Faculty**
Alliance of Health and Fitness Professionals (AHFP) - The Alliance of Health and Fitness Professionals (AHFP) is an official USF student organization designed to provide exercise science majors with a variety of professional development and leadership experiences. Activities include preparing for certifications in the field, attending professional conferences, participating in volunteer community projects and programs, and coordinating many local educational and social events. Each year, the organization plans an annual awards banquet to recognize graduating seniors.

Association of Physical Education College Students (APECS) - The Association of Physical Education College Students (APECS) is open to all students enrolled in the K-12 Physical Education Program. Social and professional meetings are conducted throughout the year. Professional service to the community is also provided by the association.

Kappa Delta Pi (KDP) - Kappa Delta Pi (KDP) is an international honor society in Education, and the Lambda Tau chapter has been on the USF campus for over 44 years. The purpose is to promote excellence in education and recognize scholarship, leadership, and service. KDP is the only College of Education honor organization that represents all educators regardless of subject area specialty, degree obtained, grade-level focus, or years of teaching experience. Undergraduate student applicants must have a minimum overall grade point average of 3.0 and 12 semester hours of education courses. MAT students must have a minimum overall grade point average of 3.25 and 12 semester of education courses. For more information regarding Kappa Delta Pi please visit http://www.kdp.org.

Living-Learning Community (eduCARE) - Students interested in the College of Education upon admission have the opportunity to live on-campus in a living learning community: a theme-based, academically centered residence hall. As a member of eduCARE, the College of Education’s living learning community, students will have the opportunity to live amongst peers who share an appreciation for education. Students in eduCARE will enjoy academic support, guided career exploration, integrated social experiences, and opportunities designed to enhance their leadership development. For more information, students should visit www.coedu.usf.edu.

Student Council for Exceptional Children (SCEC) - The Student Council for Exceptional Children [SCEC] is an organization open to students from across the university who appreciate the diversity present in our schools and society and are interested in the education of children and young adults with exceptionalities. Activities of the USF Chapter include a variety of service projects, as well as support of the COEDU Children’s Festival, Special Olympics, and field trips to various special education facilities, opportunities to hear prominent speakers, attend seminars, visit state and national conferences, and participate in social events. All interested students are invited to join.

SunCoast Area Teacher Training (SCATT) - The SunCoast Area Teacher Training (SCATT) Honors Program is an award-winning teacher training program designed to enhance the outstanding teacher preparation programs offered within the USF College of Education. Its mission is to enhance the teaching profession by establishing high performance expectations for all members and offering research-based learning experiences that support exceptional instruction, community service, leadership development, and encourage reflective practice. Visit our website at http://scatt.coedu.usf.edu for additional information.
MISSION STATEMENT

The mission of the USF College of Engineering (COE) is to improve the quality of life in our community by:
• Providing a high-quality education for USF’s Engineering and technology students and practicing professionals;
• Creating new knowledge and solving real world problems via innovative research;
• Engaging in effective community service and outreach.

GOALS AND VALUES

Utilizing the expertise of its individual and collective faculty, the College is dedicated to the development of new fundamental knowledge and processes or procedures, which will benefit humanity. The College promotes multidisciplinary approaches, commitment to life-long learning and awareness of societal issues, which are requisite for meeting technological challenges.

The College provides technical assistance and technology transfer to the region, state and nation. In all facets of teaching, research and service, the College emphasizes close liaisons with industry and government to provide students and faculty with the skills and perspectives needed to ensure effective technological leadership and to achieve and sustain national recognition in focused areas of research.

The College of Engineering’s faculty and staff value and promote a student-centric environment, innovation, collaboration, collegiality, commitment to continuous improvement, service to humanity and diversity. Through the College’s support and emphasis of these values, COE leads by example and passes these attributes on to the students, empowering them to be creative and innovative engineering professionals in the 21st century as their work influences and impacts humanity.

DEPARTMENTS AND PROGRAMS

The College of Engineering offers undergraduate and graduate programs to prepare students for a broad spectrum of professional careers in engineering. Laboratory experiences, as well as real-world participation in technological problem solving, are key aspects of a professional engineer’s education. The laboratory and research facilities of the College of Engineering, close collaboration with engineering professional societies and the many industries in the metropolitan Tampa Bay area provide a wide range of experiential learning opportunities for engineering students at the University of South Florida. The College of Engineering offers undergraduate degrees in Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science, Electrical Engineering, Industrial Engineering, Mechanical Engineering and Information Technology. In addition, the College offers minors in Biomedical Engineering and Computer Science. The engineering programs of the College have been developed with an emphasis on three broad aspects of engineering activity: design, research, and the operation of complex technological systems. The undergraduate degree programs provide a strong, broad-based, fundamental engineering education as preparation for careers in industry and government, or as preparation for advanced studies in professional schools of engineering, science, law, business and medicine.

At the graduate level, students work in close collaboration with faculty, pursuing advanced topics within their disciplines which will result in advancements in their fields and society at large. Students who are interested in advanced design or research should pursue a traditional or accelerated program leading to a Master of Science degree in the designated discipline. The supervision of the academic programs is the function of the administrative departments together with several coordinators. Each department is responsible for specific professional programs, faculty, laboratories, and student advising.

The USF Bachelor of Science degree programs in Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Industrial Engineering, and Mechanical Engineering are accredited by the Engineering Accreditation Commission of ABET. The Bachelor of Science degree program in Computer Science is accredited by the Computing Accreditation Commission of ABET www.abet.org.

The Departments and Programs section that follows contains descriptions of the baccalaureate degrees offered by the College. Students interested in particular programs offered by the College of Engineering should direct their inquiries to the College of Engineering’s Office of Student Services. Information is also available on the College’s website: http://www.eng.usf.edu/.

ENGINEERING TODAY AND TOMORROW

The College of Engineering recognizes that modern engineering solutions draw on knowledge of several branches of engineering. It also recognizes that future technological and societal developments will lead to shifting the relative emphasis on various branches of engineering, triggered by new needs or a reassessment of national goals. For this reason the College’s programs include a strong engineering foundation, designed to equip the graduating engineer with a broad base of fundamental technical knowledge and specialization course work in sufficient depth to embark upon a successful professional career.

The Bachelor of Science degrees offered in the various engineering disciplines provide the student a broad education with sufficient technical background to contribute effectively in many phases of engineering not requiring the
The depth of knowledge needed for advanced design or research. The baccalaureate degree is considered the minimum educational credential in the engineering profession. Students interested in design and in research are strongly encouraged to pursue advanced work beyond the baccalaureate at this or other institutions. Today’s engineering and technology professionals value and participate in post baccalaureate study to obtain the information and training necessary to effectively meet tomorrow’s technological challenges. In order to keep abreast of evolving technologies continuing education is available through formal graduate study, seminars, special institutes, memberships in professional organizations and other structured educational opportunities.

Professional Registration
Students who have attained senior status, and are in good academic standing in an ABET accredited engineering program, are eligible to register for examinations leading to licensure as a professional engineer. The first examination, called the Fundamentals of Engineering (FE) Exam, is offered by the Florida Board of Professional Engineers and is usually taken the semester prior to graduation. In addition to the knowledge acquired through the engineering curriculum, many students take advantage of review courses offered in the College of Engineering to prepare for the Fundamentals of Engineering Examination. Registering for the FE exam during the senior year is strongly encouraged.

Internships and Cooperative Education Programs
The College of Engineering and USF’s Career Services Cooperative Education (Co-Op) program provides services for students interested in internships and cooperative education experiences. A wide variety of industries and government agencies offer internships and cooperative education employment opportunities for engineering students. Participants gain valuable expertise in practical applications and other aspects of operations and development in a professional engineering environment. Students normally apply for participation in this program during their sophomore year and pursue actual internships and co-op employment during their sophomore, junior, and senior years.

Research Experiences for Undergraduate Students
The Research Experiences for Undergraduate Students program in the USF College of Engineering offers undergraduate students an opportunity to directly participate in state-of-the-art research. Graduate students and professors serve as research partners and mentors as undergraduate research assistants participate in the scientific process and gain relevant experience.

Accelerated Programs Leading to the Bachelor and Master of Science Degrees in Engineering
Well qualified students who, at the beginning of their senior year, are clearly interested in graduate study are invited to pursue an accelerated program of study leading simultaneously to the Bachelor of Science and Master of Science in Engineering.

Engineering Students in the University Honors College
Engineering students participating in the University Honors Program are able to complete their Engineering Bachelor’s degree in four years. Many enter the Accelerated program in the fourth year to pursue the combined Bachelor’s and Master’s programs in Engineering. Students who qualify for the Honors Program at USF should contact the Honors College or Engineering Student Services to learn about the benefits of this prestigious program.

Army, Air Force and Naval R.O.T.C. for Engineering Students
The academic and technological knowledge an engineering degree provides a distinct advantage to individuals interested in a military appointment or career. This is especially true for those participating in one of the ROTC programs at USF.

Preparation for Engineering
The high school student anticipating a career in engineering should present a strong academic record including four years of advanced high school mathematics and science including chemistry and physics. Prospective students who lack sufficient preparation in high school may need additional preparatory coursework at the University of South Florida.

Student Laptop Computer Requirement
All students entering the College of Engineering are required to have a laptop computer that they can use in their engineering classes and labs. The laptop computer must be capable of connecting to the internet via wireless. The minimum computer requirements can be found on the College of Engineering website.
Admission Requirements for First Time in College Students
(excludes Admission Requirements for the Information Technology Major – see below)
First time in college students and lower division students with 30 credit hours, who meet the criteria below, are granted direct entry into the College of Engineering:
1. Admitted to the University of South Florida as a degree seeking student;
2. Test Scores:
   - SATM—a minimum quantitative score of 550 or
   - ACTM—a minimum score of 24 or
   - Completed College Algebra with a grade of C or better (no C-) or
   - Take College Algebra at USF before the first fall semester and get a grade of C or better (no C-).
Those students who do not meet the above criteria are classified as “Pre-Engineering” students. Pre-Engineering students are admitted to the College after satisfactorily completing Calculus I and II and Physics I with lab, all with a minimum grade of C or better (no C-) in no more than two (2) attempts per course while at USF. Two attempts includes withdrawal from a course.
Additional requirements must be met prior to admission to specific degree programs, as noted below under the section entitled, “Required Prerequisites for Entering Engineering Programs.”

Admission Requirements for Transfer Students
(excludes Admission Requirements for the Information Technology Major – see below)
1. Admitted to the University of South Florida as a degree-seeking student.
2. Transfer students must complete all of the following courses with a grade of C or better (no C-) in each course (maximum two (2) attempts allowed to earn required grade and a withdrawal is considered an attempt):
   - Calculus I (MAC X281 or MAC X311 or equivalent)
   - Calculus II (MAC X282 or MAC X312 or equivalent), and
   - Calculus-based Physics I plus lab (PHY X048L or PHY X045L)
If a student does not meet these College of Engineering admissions requirements, the student can attempt to meet College of Engineering transfer admission requirements in no more than two (2) attempts per course while at USF.
If a grade of C is not attained in each of these courses in two or less attempts, the student will be redirected to another major.
For the specific state mandated common prerequisite courses for each major within the College of Engineering, please see the section entitled, "Prerequisites (State Mandated Common Prerequisites) for Students…Institution" located in each department’s section of the catalog.
3. Florida College System transfer students who have met the minimum criteria above and have completed the courses shown under the section below entitled, “Required Prerequisites for Engineering Programs/Majors” with the minimum grades and GPA required by the academic department are accepted directly into the College of Engineering and into the specific program/major.

Admission Requirements for Transfer Students
(For Information Technology Students ONLY)
Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution
Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless otherwise stated, a grade of C is the minimum acceptable grade.

- PSY XXXX Any Psychology course
- STA X023 Introductory Statistics I or STA X122
- ECO X013 Principles of Economics (Macroeconomics)
- CGS XXXX Any Database course
- COP XXXX Any Computer Programming course
- MAC XXXX Any Pre-Calculus course
- PHY XXXX Any Physics course
- XXXX XXXX Any Discrete Math course
- COP XXXX Any Object-Oriented Computer Programming course

Transfer Credit
The USF College of Engineering will accept transfer credit from non-Florida Statewide Common Course Numbering System courses when appropriate if the transferred course has been passed with a grade of C or better and it is determined to be equivalent in both content and quality. In some cases credit for a course may be granted, but the hours accepted may be less than the hours earned at another school. In general, engineering and technology courses...
taken at technical schools, or as part of professional or military training, are not applicable to the degree programs of the College of Engineering. Transfer students should be prepared to submit detailed course syllabi from the previous institution if requested.

While credit work from other institutions may be granted subject to the conditions of the previous paragraph, at least 30 credit hours including a minimum number of semester hours of engineering coursework, specified by the degree-granting department, must be taken at USF to receive the baccalaureate degree. Prospective transfer students may contact the College’s Office of Student Services (813/974-2684) to request an assessment.

Required Prerequisites for Entering Engineering Programs/Majors

Students who have met the College of Engineering’s admission requirements carry a major code of “Engineering” or “Pre-Information Technology” until they have completed the prerequisite requirements for departmental admission. (Please see below for departmental admissions requirements.) Students who have fully met the admission requirements for their intended major, and are in good academic standing, may declare a major in one of the following bachelor’s degree programs: Bachelors of Science in Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science, Electrical Engineering, Industrial Engineering, Mechanical Engineering or Information Technology. The College of Engineering is not accepting new students for the four year Bachelor of Science program in Information Systems at this time. Departmental admissions requirements vary by program. Students considering transferring to USF should familiarize themselves with the requirements for their intended department as early as possible.

Students admitted to the University of South Florida and the College of Engineering must qualify for the program of their choice by successfully meeting the requirements below. Unless otherwise stated, the minimum acceptable grade in math and science prerequisites is a grade of C or higher (C- is insufficient).

Prior to being admitted to a department, a student may be permitted to take no more than two departmental Engineering courses. Once admitted, individual departments may have continuation requirements which specify minimum performance standards in core engineering courses for the discipline which must be met before further registration in the department is granted.

The Department of Chemical & Biomedical Engineering

**Bachelor of Science in Chemical Engineering**

- Completion of:
  - (MAC 2311 or MAC 2281) and (MAC 2312 or MAC 2282) and (MAC 2313 or MAC 2283)
  - PHY 2048 and PHY 2048L
  - PHY 2049 and PHY 2049L
  - CHM 2045 and CHM 2045L
  - A minimum grade of C in each course.
  - A minimum overall GPA of 2.0
  - A minimum USF GPA of 2.0

The Department of Civil & Environmental Engineering

**Bachelor of Science in Civil Engineering**

- Completion of:
  - (MAC 2311 or MAC 2281) and (MAC 2312 or MAC 2282) and (MAC 2313 or MAC 2283)
  - PHY 2048 and PHY 2048L
  - PHY 2049 and PHY 2049L
  - (CHM 2045 and CHM 2045L) or (CHS 2440 and 2440L)
  - A 2.3 GPA (based on best attempt) in these prerequisites
  - A minimum overall GPA of 2.0
  - A minimum USF GPA of 2.0

The Department of Computer Science & Engineering

**Bachelor of Science in Computer Engineering and Bachelor of Science in Computer Science**

- Completion of:
  - ENC 1101 and ENC 1102
  - (MAC 2311 or MAC 2281) and (MAC 2312 or MAC 2282)
  - PHY 2048 and PHY 2048L
  - PHY 2049 and PHY 2049L
  - A minimum grade of C in each course listed above (grades of C- are insufficient) and an overall GPA for these courses of 3.5 are required to guarantee admission to the program. The required overall GPA for these courses may be lower than 3.5 when allowed by the program. When the acceptable GPA is less than 3.5, that information will be posted in the University’s course management system and on the department’s website ([http://www.cse.usf.edu](http://www.cse.usf.edu)) one year prior to the fall semester that the revised GPA is applicable. The
computed GPA is based on the best attempts in these courses.

• COP 2510
  Completion of COP 2510 with a minimum grade of B (grade of B- is insufficient) or another introductory programming course covering a modern programming language, with an emphasis on programming concepts and design methodology with a minimum grade of B (grade of B- is insufficient).
  • A minimum overall GPA of 2.0
  • A minimum USF GPA of 2.0
  Students meeting the above requirements may be admitted to either of the two major degree tracks; however, continuation in the program will be allowed only for students who complete CDA 3103 and COP 3514 with minimum grades of B, based on best attempts in each course (grades of B- are insufficient). These requirements must be met with a maximum of two attempts allowed for each course.

The Department of Electrical Engineering
Bachelor of Science in Electrical Engineering
• Completion of:
  (MAC 2311 or MAC 2281) and (MAC 2312 or MAC 2282) and (MAC 2313 or MAC 2283)
  PHY 2048 and PHY 2048L
  PHY 2049 and PHY 2049L
  (CHM 2045 and CHM 2045L) or (CHS 2440 and 2440L)
  • A minimum grade of C in each course and a 3.0 GPA based upon the best attempt in these courses.
  • A minimum overall GPA of 2.0
  • A minimum USF GPA of 2.0
  Continuation in the major requires successful completion of EGN 3373, EGN 3374, and Differential Equations with grades of B (not B-) or higher (best attempt).

The Department of Industrial & Management Systems Engineering
Bachelor of Science in Industrial Engineering
• Completion of:
  (MAC 2311 or MAC 2281) and (MAC 2312 or MAC 2282) and (MAC 2313 or MAC 2283)
  PHY 2048 and PHY 2048L
  PHY 2049 and PHY 2049L
  (CHM 2045 and CHM 2045L) or (CHS 2440 and 2440L)
  • A minimum grade of C in each course.
  • A minimum overall GPA of 2.0
  • A minimum USF GPA of 2.0

The Department of Mechanical Engineering
Bachelor of Science in Mechanical Engineering
• Completion of:
  (MAC 2311 or MAC 2281) and (MAC 2312 or MAC 2282) and (MAC 2313 or MAC 2283)
  PHY 2048 and PHY 2048L
  PHY 2049 and PHY 2049L
  (CHM 2045 and CHM 2045L) or (CHS 2440 and 2440L)
  • A minimum grade of C in each course and a 3.0 GPA based upon best on these courses
  • A minimum overall GPA of 2.0
  • A minimum USF GPA of 2.0
  Students in the Mechanical Engineering Department must have and maintain a minimum 2.0 GPA in EGN Engineering and EML Specialization courses, as well as a minimum overall and USF GPA of 2.0. A grade of C- is the minimum acceptable grade for EGN and EML courses, which are prerequisites to other EGN and EML courses.

The Division of Information Technology
Bachelor of Science in Information Technology
• Completion of:
  PSY XXXX Any Psychology course
  STA X023 Introductory Statistics I or STA X122
  ECO X013 Principles of Economics (Macroeconomics)
  CGS XXXX Any Database course
  COP XXXX Any Computer Programming course
  MAC XXXX Any Pre-Calculus course
  PHY XXXX Any Physics course
ACCELERATED PROGRAMS LEADING TO BACHELOR’S AND MASTER’S DEGREES IN ENGINEERING

Well qualified students who, at the beginning of their senior year, are clearly interested in graduate study are invited to apply to the Accelerated Graduate Program leading simultaneously to the Bachelor of Science in Engineering and Master of Science in Engineering degrees. The general basis of the accelerated program includes:

1. The opportunity of taking some graduate courses during the fourth year and deferring the taking of some senior courses to the fifth year.
2. Up to twelve credit hours may be counted toward both degrees in some degree programs with the approval of both the Undergraduate and Graduate Program Directors.

Students apply for admission to this program through their departmental advisor. Admissions requirements vary by department.

Minimum application requirements:
- Senior standing (90 credits)
- At least 16 upper level engineering credits completed
- Meet or exceed the graduate program entrance requirements of the department.

Student Advising

Effective pursuit of engineering and engineering related studies requires careful attention to both the sequence and the type of courses taken. The engineering curriculum differs in key respects from the study plans of other majors even in the freshman year. Professional advisors in the College of Engineering provide individualized academic planning and guidance.

New students must attend the University’s Orientation program. They will be introduced to the Engineering advisors during this program and receive advisement for their first semester. The student and advisors jointly work out a plan of study that meets both the student’s career objectives and the College of Engineering’s degree requirements.

While the College provides advising services to assist students with academic planning, the student is responsible for knowing and meeting all performance standards and graduation requirements.

Advising Office

*Tampa Campus: Engineering Building III, (ENC), TECO Energy Hall, Room 1302, (813) 974-2684.*

Preliminary Coursework for Engineering Students

The College of Engineering Bachelor of Science programs are founded on a set of coursework that is designed to give each student a thorough foundation of knowledge on which specialization studies and a professional career can be based. Emphasis is placed on three key elements: development of communication skills, familiarity with the social sciences and humanities and a solid base in science and mathematics. Students selecting Engineering major should be aware of specific requirements. Students may consult the College’s Advising Office for detailed information.

Grading Policies

1. S/U Grading Policy

Students pursuing College of Engineering degree programs are expected to take their courses on a graded basis. Please refer to the grading system in the Academic Policies and Procedures section of this catalog. S/U grading option must be requested during the first week of classes. Courses taken on an S/U basis are not applicable to the College’s degree programs. Exceptions require written approval of the department advisor prior to registration.

2. I Grade Policy

The criteria for requesting and time limit for completing a grade of “I” (incomplete) are detailed in the Academic Policies and Procedures portion of this Catalog. A written agreement detailing the specific requirements and time limit for completion is required.

Full tuition must be paid and an audit form must be submitted to the Registrar’s Office by the end of the first week of classes if a student wishes to attend the course again to review the material. If a student registers for the course but does not request to audit the course, a grade will be submitted for the subsequent registration and an I grade will remain on the transcript.
3. Minimum Acceptable Grade in Required Courses

The minimum acceptable grade in math and science prerequisites is a C (C- is insufficient). The minimum acceptable grade in engineering courses is determined by the academic department. Students are strongly encouraged to familiarize themselves with the math/science GPA required for admission to the intended engineering department as well as the minimum grade required in engineering courses. Grades higher than the minimum of C may be indicated.

Minimum Performance and Graduation Requirements

1. Minimum Requirements

All undergraduate students with a student classification of engineering and students who have been admitted to any academic program in the College of Engineering must maintain a minimum cumulative GPA of 2.0 in each of the following categories:

1. Overall Undergraduate GPA
2. USF GPA
3. Math and Science courses (best attempt)
4. Engineering Courses
5. Prerequisite courses for the major
6. Courses within the major

Note: In no case will the minimum GPA for a category be less than 2.0.

Students who do not meet the required minimum GPA in each category are ineligible for further registration in the College unless individually designed academic plans to correct their GPA deficiencies are recommended by their academic advisors. Approved plans must include a strategy to eliminate the deficiency in two semesters or less by meeting specific goals. Students who are afforded this opportunity will be closely monitored. Those who, for any reason, fail to meet the terms of their academic plans will be ineligible to declare or continue to declare a major, or intended major, in the College of Engineering and will be ineligible to register for courses that are restricted to College of Engineering students. All undergraduate students with student classifications of engineering or pre-engineering and students who have been admitted to any academic department in the College must earn the required grade in math, science and engineering courses in no more than three registered attempts. Grades of W, I, IF, U, R, and M are considered attempts. Those who, for any reason, fail to meet this requirement will be ineligible to declare or continue to declare a major, or intended major, in the College of Engineering and will be ineligible to register for courses that are restricted to engineering students. However, for the purpose of admission and continuation in the Department of Computer Science and Engineering, attempts in CDA 3103 and COP 3514 are limited to two. See “Entrance Requirements for the Academic Majors”.

Students who are ineligible for further registration in the College of Engineering will be provided with a wide range of services to assist them in selecting a new career path. Students who have been academically dismissed from the University of South Florida, or leave on probation, may choose to attend another institution of higher learning and reapply to USF after improving their overall GPA. These returning students will be considered for readmission to the College if they meet the minimum College of Engineering admission requirements for transfer students and the program entrance requirements for their intended major as published in the University of South Florida Undergraduate Catalog in effect during the term of return.

2. Residency Requirement

Transfer students must complete a minimum number of approved specialization courses in the USF degree granting department. The minimum number of USF specialization credit hours required is established by the respective academic department. In no case will this be less than 18 hours for each bachelor’s degree. The University residency requirement for each bachelor’s degree must also be met. General engineering courses are not considered specialization courses.

A dual degree student must meet the requirements of each degree program and have a minimum of 18 approved specialization hours taken in the degree granting department beyond those specialization hours required for the first degree.

3. Years to Degree

The College of Engineering requires that a student complete the baccalaureate degree within five years after beginning engineering specialization courses. Specialization courses taken more than five years prior to graduation will not be counted toward the degree. Exceptions may be granted by the academic department.

4. Disruption of Academic Process and Academic Dishonesty

The College of Engineering will maintain an environment that encourages all to study and conduct engineering research free from undue disruption. Disruption of the Academic Process is a matter the College is obliged to report to Student Judicial Services. Academic dishonesty, in any form, is taken very seriously by the College of Engineering and will result in sanctions. The most serious penalty is dismissal from the University. (See University policies regarding
academic dishonesty.)

5. Grievance Procedure
   Students should make themselves fully aware of the University’s grievance procedures. (See University policies regarding grievance procedures.)

6. University, College and Program Requirements
   The College requirements described in the section above are in addition to requirements set forth in the University policy and procedures section and the departmental sections of this catalog. It is the student’s responsibility to complete all university, college, program and curricular requirements prior to graduation.

7. Graduation Application Procedures and Deadlines
   Each College of Engineering student is required to complete an application for graduation and graduation check list. Students should meet with their program advisor to review graduation qualifications and obtain approval well in advance of the College graduation application deadline. The graduation application deadline for the college is set prior to the university deadline and is posted on the College of Engineering Student Services website.

   Note: Applications are generally due before the beginning of the graduating term. Individual academic departments may have a graduation application deadline that precedes the college one.

**CHEMICAL & BIOMEDICAL ENGINEERING**

**Undergraduate Degree Offered:**
Bachelor of Science in Chemical Engineering (B.S.C.H.)

**Graduate Degrees Offered:**
Master of Science in Chemical Engineering (M.S.C.H.)
Master in Chemical Engineering (M.C.H.E.)
Master of Engineering (M.E.)
Master of Science in Engineering (M.S.E.)
Master of Science in Biomedical Engineering (M.S.B.E.)
Doctor of Philosophy in Chemical Engineering (Ph.D.)
Doctor of Philosophy in Engineering Science (Ph.D.)
Doctor of Philosophy in Biomedical Engineering (Ph.D.)

This department offers coursework and study in all areas fundamental to Chemical & Biomedical Engineering. Engineering specialization courses, together with mathematics, physics, chemistry, other interdisciplinary engineering fundamentals, and liberal arts courses, provide the basis for long-range professional progress. Because of the many professional areas available for employment to the chemical engineer, the students are also required to take a number of electives from areas such as biotechnology, materials, and environmental engineering. These electives are designed to broaden the experience and, therefore, the employment possibilities of our graduates. The Chemical & Biomedical Engineering Department also offers a sequence of courses in chemical engineering science, biotechnology and biomedical engineering.

A sequence of courses in the engineering aspects of biotechnology is currently available within the Chemical Engineering program. Topics include applied microbiology, fermentation, enzyme technology, cell separation technology, biomedical engineering, biomaterials, biotechnology, and biomechanics.

Students pursuing the Bachelor of Science in Chemical Engineering take coursework in advanced chemistry, thermodynamics, fluids, heat, and mass transfer, numerical methods, separation processes, reacting systems, instrumentation, control, and plant design. Students must also satisfactorily complete a design project as part of their program. Chemical and Biomedical engineering students must maintain a GPA of 2.0 in required departmental courses. Therefore, it is imperative that the students retain close contact with their advisor.

Students completing this program normally initiate their careers in manufacturing, environmental, and biological enterprises. Chemical engineers are found in administrative, technical, and research positions in these industries. Main products of these industries are petrochemicals, polymers, fibers, natural and synthetic fuels, electronic materials, fertilizers, pharmaceuticals, bio-materials, etc.

Solutions of modern societal and scientific problems often require the use of chemical engineering skills. Chemical and biomedical engineering students must have access to a personal computer during their last two years of study. Those who do not own one will be severely disadvantaged.

**Mission Statement**

The mission of the Department of Chemical & Biomedical Engineering is to prepare graduates with fundamental knowledge and contemporary skills for the development, economic design, and safe operation of chemical and biological systems, processes, products, and methods in a manner compatible with societal values.
Program Education Objectives
1. Demonstrate professional engineering competence by holding positions of increasing responsibility in industry, business, government and/or educational institutions.
2. Publish papers, reports, patents and/or technical presentations at local, national, international meetings or within the professional organization/company that they are affiliated with.
3. Continue to improve their technical skills, knowledge and understanding through continuing education, pursuit of advanced degrees, and/or pursuit of professional license in their chosen profession.

Departmental Policies
In addition to the College’s graduation requirements, the department has the following policies:
1. Mandatory academic advising of students for each term.
2. Exit interviews as a graduation requirement.
3. Many courses required for the BS degree in Chemical Engineering have other pre-requisite courses. Pre-requisite courses must be completed with a C- or better before the student is allowed to take a course. This applies to pre-requisite courses taken in other departments as well. The only exceptions are the Admissions Requirements courses listed below, which must be passed with a grade of C or better.

• CHEMICAL ENGINEERING (ECH) (CIP = 14.0701)
  TOTAL PROGRAM HOURS = 131 CREDIT HOURS

Four-Year Curriculum - Chemical Engineering (B.S.C.H.)

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution
If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the University's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at a Florida College System institution, they must be completed before the degree is granted. Unless stated otherwise, a grade of C is the minimum acceptable grade.

Students qualify for direct entry to their intended department if they have completed the following courses at a Florida College System institution or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. The following are transferable courses from the Florida College System Institution that will be accepted in the Math/Science/Engineering areas:

Mathematics:

Courses at USF
MAC 2281 Engineering Calculus I
MAC 2282 Engineering Calculus II
MAC 2283 Engineering Calculus III
MAP 2302 Differential Equations

Courses at a Florida College System Institution
MAC X311 or MAC X281
MAC X312 or MAC X282
MAC X313 or MAC X283
MAP X302 or MAP X305

Natural Sciences:

Courses at USF
CHM 2045/CHM 2045L General Chemistry I with Lab
CHM 2046/CHM 2046L General Chemistry II with Lab
PHY 2048/2048L General Physics I – Calculus Based with Lab
PHY 2049/2049L General Physics II – Calculus Based with Lab

Courses at a Florida College System Institution
CHM X045/X045L or CHM X045C or CHS X440/X440L
CHM X046/X046L or CHM X046C or
PHY X048/X048L or PHY X048C
PHY X049/X049L or PHY X049C

Chemical & Biomedical Engineering Admissions Requirements
Students must have completed the equivalent USF Engineering Calculus, General Physics and Chemistry courses with a C or better in each course; must have a USF and an overall GPA of 2.0 or better.

Chemical Engineering (ECH), BSCH, 131

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full time engineering students. Students who adhere to the recommended sequence of courses, and complete each course with the required grade, will be fully prepared for each subsequent semester. Registration
assistance will be provided by academic advisors in the College of Engineering.

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<td>General Chemistry I</td>
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<td>EGN 3000L</td>
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<td>MAP 2302</td>
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<td>ECH 4846</td>
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<td>CHM 2211</td>
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<td>ECH 3702</td>
<td>Instrument Systems I</td>
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<td>ECH 4265C</td>
<td>Mass Transfer Operations</td>
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<td>BME 4406</td>
<td>Engineering of Biological Systems</td>
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## Biomedical Engineering Minor (EBI)

This biomedical engineering minor is a 15 credit hour program that is open to all engineering majors and other students that meet the prerequisites listed below. For engineering majors, at least 9 hours beyond the B.S. in any Engineering discipline must be completed for the biomedical engineering minor. Student must register with the Department of Chemical & Biomedical Engineering undergraduate advisor prior to starting this minor program. Departments within the College of Engineering are currently developing additional courses that will be added to the list of courses that can be applied to this minor, so consultation with the advisor will insure that students are informed of all offered courses.

### Prerequisite courses:
1. Biology I: BSC 2010
2. Calculus II: MAC 2282, MAC 2242, MAC 2233 or MAC 2312
3. Physics II: PHY 2049 or PHY 2054
4. General Chemistry II: CHM 2046

### Required Courses (6 hours)
- BME 4100: Biomedical Engineering
- BME 4406: Engineering of Biological Systems

The remaining 9 credit hours can be taken from the following list:

- ECH 6417: Bioseparations
- ECH 4931: Special Topics in Chemical Engineering*
- PHZ 4702: Applications of Physics to Biology & Medicine I
- PHZ 4703: Applications of Physics to Biology & Medicine II
- BCH 3023: Introductory Biochemistry
- EIN 4313C: Human Factors
- BME 5006: Theory and Design of Bioprocesses
- EIN 5245: Work Physiology/Biomechanics
- BME 5040: Pharmaceutical Engineering
- ECH 5748: Selected Topics in Biomedical Engineering*
- BME 5748: Selected Topics in Biomedical Engineering*

*Please see academic advisor for selected special topics courses.

### Chemical & Biomedical Engineering Faculty

Department of Civil & Environmental Engineering

Undergraduate Degree Offered:
Bachelor of Science in Civil Engineering (B.S.C.E.)

Graduate Degrees Offered:
Master of Science in Civil Engineering (M.S.C.E.)
Master of Science in Environmental Engineering (M.S.E.V.)
Master of Civil Engineering (M.C.E.)
Master of Environmental Engineering (M.E.V.E.)
Doctor of Philosophy in Civil Engineering (Ph.D.)
Doctor of Philosophy in Environmental Engineering (Ph.D.)
Doctor of Philosophy in Engineering Science (Ph.D.)

This department offers course work and study pertinent to Civil Engineering, Engineering Mechanics, Material Science, and Environmental Engineering. Areas of concentration are Environmental/Water Resources Engineering; Structures/Materials/Geotechnical Engineering; and Geotechnical/Transportation Engineering.

Students completing the program may enter the profession as engineers in civil, structural, geotechnical, transportation, water resources, environmental, hydraulics, or materials disciplines. All of these disciplines share the need for knowledge in the areas of engineering mechanics, civil engineering, material science, and environmental engineering. Through choice of the proper area of concentration, a student has the opportunity to channel academic studies specifically towards his/her career choice.

Graduates of the program may commence their engineering careers in either industry, engineering consulting firms, or public service at the federal, state, or local level. Initial assignments may include planning, design and implementation of water resources systems; planning and design of transportation and housing systems; regional planning, design, and management for abatement of air, water and solid waste pollution problems; design of bridges and single and multistory structures; and supervision of construction projects.

Mission Statement

The Civil Engineering Program of the Department of Civil and Environmental Engineering at the University of South Florida will provide undergraduate students with strong, broad-based, engineering education which gives them the basic intellectual and organization skills that allow them to work with complex systems with technological, social and environmental components. As many of the Program’s graduates begin work upon graduation in industry or with governmental organizations, the curriculum is designed to prepare students for these roles by requiring a number of courses in the various fields of civil engineering and by providing limited specialization in one given area. The curriculum is designed to encourage lifelong learning and to prepare students for undertaking advanced studies in engineering or in other professional areas.

Program Educational Objectives Associated with the Mission Statement

The program and curriculum of the Department of Civil and Environmental Engineering are designed to meet the needs of all students within the context of its Mission Statement. The Program Educational Objectives associated with the Department’s Mission Statement are:

1. The Civil Engineering Program at the University of South Florida has as a program educational objective that graduates, within 3-6 years after graduation, can obtain positions in the public or private sector.
2. The Civil Engineering Program at the University of South Florida has as a program educational objective that graduates, within 3-6 years after graduation, are continuing their professional development by extending their professional knowledge through independent learning, continuing educational courses, conferences, workshops, short courses, and/or graduate study.
3. The Civil Engineering Program at the University of South Florida has as a program educational objective that graduates, within 3-6 years after graduation, that are working in engineering related public or private organizations encouraging professional registration will have made appropriate progress towards achieving that registration.

Concentrations

In addition to designated common coursework in engineering mechanics, civil, and environmental engineering, students undertake a concentration of 15 hours of coursework plus a 3-hour capstone design course and a 1 hour Professional and Ethical Issues in Engineering.

Departmental Policies

In addition to the College’s graduation requirements, the Department has the following policies:

All students must:
1. Participate in mandatory advising prior to each term;
2. Participate in Department assessment activities and successfully complete an exit interview before graduating;
3. Maintain a C- or better in EGN 3311 Statics; EGN 3331 Mechanics of Materials; EGN 3353 Basic Fluid
4. Earn a C- or better in all engineering courses used to meet graduation requirements;
5. Consider the advice of the college to complete and pass the Fundamentals of Engineering Exam (F.E. Exam).
6. Periodically provide writing samples as part of the Department's writing assessment program.

• CIVIL ENGINEERING (ECE) (CIP = 14.0801)

TOTAL PROGRAM HOURS = 131 CREDIT HOURS

Enrollment in the Civil and Environmental Engineering program requires a minimum Grade of C- as well as a 2.5 GPA for the best attempt in all these courses;

- EGN 3311 Statics
- EGN 3331 Mechanics of Materials
- EGN 3353 Basic Fluid Mechanics
- EGN 3365 Materials Engineering

To continue in the program, the advisor will consider the advice of the college to complete and pass the Fundamentals of Engineering Exam (F.E. Exam).

Periodically provide writing samples as part of the Department's writing assessment program.

Civil Engineering (ECE), BSCE, 131

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full time engineering students. Students who adhere to the recommended sequence of courses, and complete each course with the required grade, will be fully prepared for each subsequent semester. Registration
### Fall Semester - Year 1
- CHS 2440 Chemistry for Engineers 3
- CHS 2440L Chemistry for Engineers Laboratory 1
- EGN 3000 Foundations of Engineering 0
- EGN 3000L Foundations of Engineering lab 1
- ENC 1101 Composition I 3
- MAC 2281 Engineering Calculus I 4
- XXX XXXX FKL Social & Behavioral Sciences Elective 3

**Total** 15

### Spring Semester - Year 1
- GLY 3850 Geology for Engineers 3
- EGS 1113 Introduction to Design Graphics 3
- ENC 1102 Composition II 3
- MAC 2282 Engineering Calculus II 4
- PHY 2048 General Physics I 3
- PHY 2048L General Physics I Laboratory 1

**Total** 17

### Fall Semester - Year 2
- EGN 3311 Statics 3
- XXX XXXX FKL Humanities Elective 3
- MAC 2283 Engineering Calculus III 4
- PHY 2049 General Physics II 3
- PHY 2049L General Physics II Laboratory 1
- EGN 3365 Materials Engineering 3

**Total** 17

### Spring Semester - Year 2
- EGN 3321 Dynamics 3
- EGN 4427 Numerical and Computer Tools I 3
- EGN 3331 Mechanics of Materials 3
- EGN 3331L Mechanics of Materials/ Materials Lab 1
- EGN 3353 Basic Fluid Mechanics 3
- MAP 2302 Differential Equations or EGN 3433 Modeling and Analysis 3

**Total** 16

### Summer Term - Year 2
- EGN 3615 Engineering Economics with Social and Global Implications 3
- ENC 3246 Communications for Engineers (WI) 3
- XXX XXXX FKL Human Cultural Diversity and Global Context 3

**Total** 9

### Fall Semester - Year 3
- EGN 4454 Numerical and Computer Tools II 3
- EGN 3343 Thermodynamics 3
- EGN 3443 Probability and Statistics for Engineers 3
- ENV 4001 Environmental Systems Engineering 3
- TTE 4004 Transportation Engineering I 3

**Total** 15

### Spring Semester - Year 3
- CES 3102 Structures I 3
- CWR 4202 Hydraulics 3
- EGN 3373 Introduction to Electrical Systems I 3
- ENV 4004L Environmental/Hydraulics Engineering Lab 1
- XXX XXXX Department Upper-Level Elective (CE Concentration Elective) 3
- XXX XXXX FKL Humanities Elective 3
## COLLEGE OF ENGINEERING

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<th>Course Title</th>
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<td>CEG 4011L</td>
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<td>FK Fine Arts Elective</td>
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<td>CGN 4122</td>
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<td><strong>TOTAL CREDIT HOURS TO DEGREE</strong></td>
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<td><strong>131</strong></td>
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</table>

Gordon Rule (6A) is fully met through the mathematics courses above, ENC 1101, ENC 1102, ENC 3246 and by selecting one technical or general education elective that is an approved 6A communication course or by completing an AA degree at a Florida College System institution.

Foundations of Learning and Knowledge Core Curriculum: The math and science courses required for this major fully meet the math and science requirements of the FKL core curriculum. Students in the College of Engineering are exempt from the "Life Science" requirement.

The writing intensive and capstone design exit requirements are fully met through ENC3246 and a Capstone Design Course.

### Civil Engineering Concentration AND CAPSTONE DESIGN Requirements

Civil Engineering students take one of the 3 tracks next listed:

#### Structures/Materials/Geotechnical Track
- CES 4702 Concepts of Concrete Design
- CES 4605 Concepts of Steel Design
- CGN 4851 Concrete Construction Materials
- CEG 4012 Geotechnical Engineering II or TTE 4005 Transportation Engineering II
- XXX XXXX Technical Elective
- CES 4750 Capstone Structures/Materials/Geotechnical Design

#### Geotechnical/Transportation Track
- CGN 4851 Concrete Construction Materials
- CEG 4012 Geotechnical Engineering II
- TTE 4005 Transportation Engineering II
- XXX XXXX Technical Elective
- XXX XXXX Technical Elective
- CEG 4850 Capstone Geotechnical/Transportation Design

#### Environmental/Water Resources Track
- ENV 4417 Water Quality and Treatment
- CWR 4540 Water Resources Engineering I
- CEG 4012 Geotechnical Engineering II or TTE 4005 Transportation Engineering II
- XXX XXXX Technical Elective
- XXX XXXX Technical Elective
- CWR 4812 Capstone Water Resources/Environmental Design

The Program supports the following technical elective courses:
- CCE 4031 Construction Management
- CEG 4012 Geotechnical Engineering II
- CES 4605 Concepts of Steel Design
- CES 4702 Concepts of Concrete Design
- CGN 4851 Concrete Construction Materials
Civil and Environmental Engineering Faculty

Department of Computer Science and Engineering

Undergraduate Degrees Offered:
- Bachelor of Science in Computer Science (B.S.C.S)
- Bachelor of Science in Computer Engineering (B.S.Cp.E.)

Graduate Degrees Offered:
- Master of Science in Computer Science (M.S.C.S)
- Master of Science in Computer Engineering (M.S.Cp.E.)
- Doctor of Philosophy in Computer Science and Engineering (Ph.D.)

This Department offers coursework and study in all areas fundamental to Computer Science and Computer Engineering. Undergraduate degree programs within the Department lead to the Bachelor of Science in Computer Science or Bachelor of Science in Computer Engineering. The Computer Science program focuses on the design, development, and application of software systems and on the theory of computation. Additional course work in algorithms, discrete structures, object oriented design, data structures, operating systems, digital logic design, computer architecture, and a wide range of advanced electives extend and supplement the core. The Computer Engineering program emphasizes the application of engineering principles to the design of computer hardware and software and devotes additional time to issues of computer architecture and advanced topics in hardware design, including extensive laboratory work. Students in this program also acquire a broad background in engineering topics through related coursework in the College.

Graduates from the Department follow rewarding careers in software and hardware development in industry and in government agencies. In addition to providing the credentials necessary for a professional career, the undergraduate curriculum prepares students for graduate education towards an M.S. or Ph.D. within the Department or at other universities. The Department faculty members are very committed to including undergraduate students in research through the Research Experience for Undergraduates (REU) program.

The Department offers an accelerated B.S./M.S. program where highly motivated students can complete both a B.S. and M.S. degree in five years. This program allows students to take graduate courses in their senior year that count towards both their B.S. and M.S. degrees. The Department also offers a minor in Computer Science, which provides a solid core of computing skills for students from other majors. The minor comprises 18 to 21 hours of course work within the Departmental core courses and advanced electives. The minor is intended for students who are interested in learning the fundamentals of Computer Science to enhance their major. The minor will also be of interest to those students intending to pursue a graduate degree where computing is essential background knowledge.

Mission Statement
In keeping with the mission of the College of Engineering, the Department of Computer Science and Engineering strives for excellence in teaching, research, and public service. Specifically, the Department aspires to:

1. Lead the advancement of computer science and engineering through internationally recognized research and graduate education, as well as technology transfer to regional industries.
2. Prepare students for full and ethical participation in a diverse society and encourage lifelong learning.
3. Educate students in the best practices of the field as well as integrate the latest research into the curriculum.
4. Foster the development of problem solving and communication skills as an integral component of the profession.
5. Provide quality learning experiences through small classes, active learning styles of teaching, and opportunities for meaningful interactions between students and faculty.
Objectives
The Department of Computer Science and Engineering has established the following objectives for graduates of the Department. Since the Department offers two degree programs, the objectives are defined for each program.

Computer Science Program Educational Objectives:
1. Our Computer Science graduates will apply their knowledge and skills to succeed in their career and/or obtain an advanced degree.
2. Our graduates will function ethically and responsibly, and will remain informed and involved as full participants in our profession and our society.
3. Our graduates will successfully function in multi-disciplinary teams.
4. Our graduates will apply basic principles and practices of computing grounded in mathematics and science to successfully complete software related projects to meet customer business objectives and/or productively engage in research.

Computer Engineering Program Educational Objectives:
1. Our Computer Engineering graduates will apply their knowledge and skills to succeed in their career and/or obtain an advanced degree.
2. Our graduates will function ethically and responsibly, and will remain informed and involved as full participants in our profession and our society.
3. Our graduates will successfully function in multi-disciplinary teams.
4. Our graduates will apply basic principles and practices of computing grounded in mathematics and science to successfully complete software related engineering projects to meet customer business objectives and/or productively engage in research.

Departmental Policies
In addition to the College’s graduation requirements, the Department has the following policies:
1. Mandatory academic advising and/or mentoring of students.
2. Exit interview as a graduation requirement.
3. In addition to the College’s graduation requirements, the Department policy concerning grades is:
   a. The minimum grade in specialization courses is a C-, except as stated in Department admission requirements.
   b. The minimum grade in math, science, and engineering courses which are required for the degree is a C, except as stated in Department admission requirements.

• COMPUTER SCIENCE (BCS) (CIP = 11.0101) (Track 1 of 6)
TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution
If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at a Florida College System institution, they must be completed before the degree is granted. Unless stated otherwise, a grade of C is the minimum acceptable grade (C- is insufficient).

- COP XXXX Introductory Programming in C, C++, Java, or equivalent language
- MAC X311 Calculus I or MAC X281
- MAC X312 Calculus II or MAC X282
- PHY X048/X048L General Physics I with Lab or PHY X048C
- PHY X049/X049L General Physics II with Lab or PHYX049C
- XXX XXXX Six credit hours of science courses for science majors

Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.

Computer Science Admissions Requirements
All students must complete the equivalent of USF Composition I & II, Engineering Calculus I & II and Calculus-based General Physics I & II (with labs) with minimum grades of C or higher in each course (grades of C- are insufficient) and
an overall GPA for these courses of 3.50 to guarantee admission to the program. The required overall GPA for these courses may be lower than 3.50 when allowed by the program. When the acceptable GPA is less than 3.50 that information will be posted in the University’s course management system and on the department’s website (http://www.cse.usf.edu) one year prior to the fall semester that the revised GPA is applicable. The computed GPA is based on the best attempts in these courses. Continuation in the major requires successful completion of CDA 3103 and COP 3514 with the required GPA as stated in the Computer Science and Engineering prerequisite statement in the College of Engineering’s general section.

**Computer Science (BCS), BSCS, 120**

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full time engineering students. Students who adhere to the recommended sequence of courses, and complete each course with the required grade, will be fully prepared for each subsequent semester. Registration assistance will be provided by academic advisors in the College of Engineering.

### Fall Semester - Year 1

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<td>MAC 2281</td>
<td>Engineering Calculus I</td>
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<td>XXX XXXX</td>
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### Spring Semester - Year 1

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<td>ENC 1102</td>
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<td>MAC 2282</td>
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<td>PHY 2048</td>
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### Spring Semester - Year 2

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<td>COP 3331</td>
<td>Object-Oriented Software Design</td>
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<td>COT 3100</td>
<td>Introduction to Discrete Structures</td>
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### Summer Term - Year 2

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<td>COP 4530</td>
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<td>EGN 4450</td>
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### Fall Semester - Year 3

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<td>COT 4400</td>
<td>Analysis of Algorithms</td>
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<td>EGN 3443</td>
<td>Probability and Statistics for Engineers</td>
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</table>
### Spring Semester - Year 3
- ENC 3246 Communication for Engineers (WI) 3
- COP 4600 Operating Systems 3
- XXX XXXX Department Upper-Level Elective (CSE Theory Elective) 3
- XXX XXXX Department Upper-Level Elective (CSE Software Elective) 3
- XXX XXXX Department Upper-Level Elective (CSE Elective) 3
- **Total** 15

### Fall Semester - Year 4
- XXX XXXX FKL Human and Cultural Diversity and Global Context Elective 3
- XXX XXXX Department Upper-Level Elective (CSE Elective) 3
- XXX XXXX Department Upper-Level Elective (CSE Elective) 3
- XXX XXXX FKL Humanities Elective 3
- XXX XXXX FKL Fine Arts Elective 3
- **Total** 15

### Spring Semester - Year 4
- CIS 4250 Ethical Issues and Professional Conduct 3
- XXX XXXX Department Upper-Level Elective (CSE Elective) 3
- XXX XXXX Department Upper-Level Elective (CSE Elective) 3
- XXX XXXX Elective (Upper-Level Humanities, Social Science or Fine Arts Elective) 3
- **Total** 12

**TOTAL CREDIT HOURS TO DEGREE** 120

Gordon Rule (6A) is fully met through the mathematics courses above, ENC 1101, ENC 1102, ENC 3246 and CIS 4250 or by completing an A.A. degree at a Florida College System instituton. The writing intensive and capstone design exit requirements are fully met through ENC 3246 and CIS 4250.

Foundations of Learning and Knowledge Core Curriculum: The math and science courses required for this major fully meet the math and science requirements of the FKL core curriculum. Students in the College of Engineering may substitute a second "Physical Science" course for the required "Life Science" course.

### COMPUTER ENGINEERING (ECP) (CIP = 14.0901) (Track 1 of 2)

**TOTAL PROGRAM HOURS = 128 CREDIT HOURS**

**Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution**

If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at a Florida College System institution, they must be completed before the degree is granted. Unless stated otherwise, a grade of C is the minimum acceptable grade.

Students qualify for direct entry to the Department if they have completed the following courses at a Florida College System institution or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

**Mathematics:**

- **Courses at USF**
  - MAC 2281 Engineering Calculus I
  - MAC 2282 Engineering Calculus II
  - MAC 2283 Engineering Calculus III
  - MAP 2302 Differential Equations

- **Courses at a Florida College System Institution**
  - MAC X311 or MAC X281
  - MAC X312 or MAC X282
  - MAC X313 or MAC X283
  - MAP X302

**Natural Sciences:**

- **Courses at USF**
  - CHM 045/CHM 2045L General Chemistry I with Lab
  - CHS 2440/2440L General Chemistry for Engineers with Lab
  - PHY 2048/2048L General Physics I – Calculus Based with Lab

- **Courses at a Florida College System Institution**
  - CHM X045/X045L or CHM X045C or CHS X440/X440L
  - PHY X048/X048L or PHY X048C

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COLLEGE OF ENGINEERING

UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 2049/2049L</td>
<td>General Physics II – Calculus Based with Lab</td>
<td>3</td>
</tr>
<tr>
<td>COP XXXX</td>
<td>Introduction Programming in C, C++, JAVA or equivalent language</td>
<td>3</td>
</tr>
</tbody>
</table>

Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.

Computer Engineering Admissions Requirements

All students must complete the equivalent of USF Composition I & II, Engineering Calculus I & II and Calculus-based General Physics I & II (with labs) with minimum grades of C or higher in each course (grades of C- are insufficient) and an overall GPA for these courses of 3.5 to guarantee admission to the program. The required overall GPA for these courses may be lower than 3.5 when allowed by the program. When the acceptable GPA is less than 3.5 that information will be posted in the University’s course management system and on the Department’s website [http://www.cse.usf.edu](http://www.cse.usf.edu) one year prior to the Fall semester that the revised GPA is applicable. The computed GPA is based on the best attempts in these courses. Continuation in the major requires successful completion of CDA 3103 and COP 3514 with the required GPA as stated in the Computer Science and Engineering prerequisite statement in the College of Engineering general section.

Computer Engineering (ECP), BSCP, 128

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full time engineering students. Students who adhere to the recommended sequence of courses, and complete each course with the required grade, will be fully prepared for each subsequent semester. Registration assistance will be provided by academic advisors in the College of Engineering.

### Fall Semester - Year 1
- ENC 1101 Composition I 3
- MAC 2281 Engineering Calculus I 4
- CHM 2045 General Chemistry I 3
- CHM 2045L General Chemistry I Laboratory 1
- EGN 3000 Foundations of Engineering 0
- EGN 3000L Foundations of Engineering Lab 1
- XXX XXXX FKL Social and Behavioral Sciences Elective 3
  - Total 15

### Spring Semester - Year 1
- ENC 1102 Composition II 3
- MAC 2282 Engineering Calculus II 4
- PHY 2048 General Physics I 3
- PHY 2048L General Physics I Laboratory 1
- COP 2510 Programming Concepts 3
  - Total 14

### Fall Semester - Year 2
- MAC 2283 Engineering Calculus III 4
- PHY 2049 General Physics II 3
- PHY 2049L General Physics II Laboratory 1
- COP 3514 Program Design 3
- XXX XXXX FKL Social and Behavioral Sciences Elective 3
  - Total 14

### Spring Semester - Year 2
- MAP 2302 Differential Equations or EGN 3433 Modeling and Analysis of Engineering Systems 3
- CDA 3103 Computer Organization 3
- COT 3100 Introduction to Discrete Structures 3
- COP 3331 Object-Oriented Design 3
- XXX XXXX FKL Humanities Elective 3
  - Total 15

### Summer Term - Year 2
- CDA 3201 Computer Logic and Design 3
### COLLEGE OF ENGINEERING

#### UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG

| CDA 3201L | Computer Logic Design Lab | 1  |
| COP 4530  | Data Structures            | 3  |
| EGN 4450  | Introduction to Linear Systems | 2 |
| **Total** |                         | **9** |

**Fall Semester - Year 3**

| CDA 4205  | Computer Architecture     | 3  |
| COT 4400  | Analysis of Algorithms    | 3  |
| XXX XXXX  | Department Upper-Level Elective (CSE Elective) | 3 |
| EEE 3394  | Electronic Materials      | 3  |
| EGN 3373  | Introduction to Electrical Systems I | 3 |
| **Total** |                         | **15** |

**Spring Semester - Year 3**

| CDA 4203  | Computer System Design    | 3  |
| CDA 4203L | Computer System Design Lab | 1 |
| COP 4600  | Operating Systems         | 3  |
| EGN 3615  | Engineering Economics with Social and Global Implications | 3 |
| XXX XXXX  | Department Upper-Level Elective (CSE Hardware Elective) | 3 |
| XXX XXXX  | Natural Sciences Elective | 3  |
| **Total** |                         | **16** |

**Fall Semester - Year 4**

| CDA 4213  | CMOS-VLSI Design          | 3  |
| CDA 4213L | CMOS-VLSI Design Lab      | 1  |
| EGN 3443  | Probability and Statistics for Engineers | 3 |
| ENC 3246  | Communication for Engineers (WI) | 3 |
| XXX XXXX  | Department Upper-Level Elective (CSE Elective) | 3 |
| XXX XXXX  | FKL Fine Arts Elective    | 3  |
| **Total** |                         | **16** |

**Spring Semester - Year 4**

| CIS 4250  | Ethical Issues and Professional Conduct | 3 |
| CIS 4910  | Computer Science Project               | 2 |
| XXX XXXX  | FKL Human and Cultural Diversity and Global Context | 3 |
| XXX XXXX  | Department Upper-Level Elective (CSE Hardware Elective) | 3 |
| XXX XXXX  | FKL Humanities Elective                | 3  |
| **Total** |                         | **14** |

**TOTAL CREDIT HOURS TO DEGREE**  **128**

Gordon Rule (6A) is fully met through the mathematics courses above, ENC 1101, ENC 1102, ENC 3246 and CIS 4250 or by completing an A.A. degree at a Florida College System institution. The writing intensive and capstone design exit requirements are fully met through ENC 3246 and CIS 4250.

Foundations of Learning and Knowledge Core Curriculum: The math and science courses required for this major fully meet the math and science requirements of the FKL core curriculum. Students in the College of Engineering may substitute a second “Physical Science” course for the required “Life Science” course.

### Requirements for the Minor in Computer Science (BCS)

This Computer Science minor is an 18 credit hour program that is open to all students, except for Department majors, that meet the prerequisites listed below. The Computer Science minor is expected to be very attractive to students in other Engineering departments, and to students in Mathematics and the Sciences (including Physics, Chemistry, and Biology). Students must register with the Department of Computer Science and Engineering undergraduate advisor prior to starting this minor program. Consultation with the Department undergraduate advisor will insure that students are informed of all offered courses. All catalog prerequisites and registration requirements must be met for enrollment in any of the courses required for the minor. All students desiring to pursue the minor must meet the same entry and continuation requirements as a Departmental major.
Prerequisite courses:
1. Calculus I and II (MAC 2281 and MAC 2282 are recommended)
2. Physics I and II with lab (PHY 2048/2048L and PHY 2049/2049L are recommended)
3. Programming Concepts COP 2510 or other approved introductory programming course

Required Courses (12 hours)
- COP 3514 Program Design
- CDA 3103 Computer Organization
- COP 3331 Object Oriented Design
- COP 4530 Data Structures

The remaining six credit hours can be taken from electives offered by the Department. Specialty tracks in hardware, software, theory, and many other areas can be defined in consultation with the Department undergraduate advisor. A specific pre-graduate school track (requiring a total of 21 hours) intended for students planning to seek admission into the Department graduate program has been defined as follows:
- COT 4400 Analysis of Algorithms
- COP 4600 Operating Systems
- CDA 4205 Computer Architecture

Successful completion of the minor requires a minimum 2.0 GPA in the above listed courses.

Computer Science and Engineering Faculty

Department of Electrical Engineering
Undergraduate Degree Offered:
- Bachelor of Science in Electrical Engineering (B.S.E.E.)
Graduate Degrees Offered:
- Master of Science in Electrical Engineering (M.S.E.E.)
- Master of Science in Engineering Science (M.S.E.S)
- Doctor of Philosophy in Electrical Engineering (Ph.D.)
- Doctor of Philosophy in Engineering Science (Ph.D.)

This department offers study in all areas fundamental to Electrical Engineering and the electrical sciences: circuit analysis and design, electronics, communications, electromagnetics, controls, solid state, system analysis, microelectromechanical systems (MEMS), bioelectrical devices and systems, and power engineering. Basic concepts are augmented with well-equipped laboratories in circuits, electronics, digital systems, microwave techniques, wireless circuits & systems, controls and communications. In addition, a general-purpose computer facility, a microprocessor and digital signal processing laboratory, and a microelectronics fabrication, design/test and metrology laboratory are available to undergraduate and graduate students.

Mission Statement
The mission of the Electrical Engineering Department in the College of Engineering at the University of South Florida is to provide a high quality education in electrical engineering for our students and practicing professionals; create new knowledge and solve real world problems via innovative research, and disseminate this information for the benefit of society; and to engage in effective regional, national and international service and outreach.

Objectives
The Electrical Engineering Department is committed to graduating electrical engineers who: “Practice electrical engineering in a responsible and ethical manner in the general areas of electrical circuits/systems and design, electronic materials and communications in industry and government settings.” Possess the necessary communication and leadership skills to function effectively in a professional and multi-disciplinary environment. Continue to develop professionally through lifelong learning, advanced education, and other creative pursuits in science and technology. Students pursuing the Bachelor of Science in the Electrical Engineering program take designated coursework in network analysis, electronics, communications, electromagnetic theory, control systems, microelectronics and microprocessors. This coursework is supplemented by electives in many specialized areas of electrical engineering. Students completing this program normally pursue industrial careers in electronics, communications, power and controls, digital systems, microelectronics, and information systems. The electrical graduate may apply his/her knowledge to such diverse areas as wireless and satellite communications, remote guidance, MEMS, sensing technology, systems integration, automation, computer and information systems, electronic power generation and transmission, electrically propelled transportation, etc. The graduate may do this by performing needed engineering
functions related to research and development (often requires an advanced degree), design, production, operations, sales, or management of these products/services.

Departmental Policies
In addition to the College’s graduation requirement, the department has the following policies:
1. Students must consult with an academic advisor for approval of their EE Technical electives.
2. Students must complete Exit interviews as a graduation requirement.
3. Students must pass all required BSEE courses, except MAP 2302, EGN 3373 and EGN 3374, with a grade of C or better (no C-). MAP 2302, EGN 3373 and EGN 3374 must be passed with a grade of B or better (no B-) to continue in the program.

The Electrical Engineering Honors Program
I. Admissions Criteria:
   a. Junior status – An invitation to apply will be sent to eligible students at the start of their junior year by the Department of Electrical Engineering and application can be made at that time with decisions made at the end of the first semester, junior year;
   b. Completion of the core courses required for the Electrical Engineering major with a GPA of at least 3.50 through the completion of the first semester, junior year;
   c. An overall GPA of at least 3.5 through the completion of the first semester, junior year.
   d. Recommendation of a committee consisting of Electrical Engineering faculty members and engineering leaders from industry, based upon an application, letters of recommendation, statement of interest, and an interview.

II. Requirements for Completion of Departmental Honors:
   a. Completion of requirements for a major in Electrical Engineering with a GPA of at least 3.50 for core courses and an overall GPA of at least 3.50;
   b. Selection of four (4) Technical Electives in conjunction with a program advisor. Students must choose their electives from at least two different tracks (see tracks below), and take a minimum of two courses per track.
   c. Nine (9) additional credits (the EE Honors courses) beyond the degree requirements, which include: a 4000-level Leadership Forum, a 4000-level Internship/Study Abroad/Enrichment Experience, and a 5000-level Honors Thesis. These courses are described in the sequel.

III. Continuation Requirements:
   a. Electrical Engineering Leadership Honors Program students failing to complete the EE Honors courses with a grade of “B” or better will not be eligible to continue in the program and will be notified by the Department of Electrical Engineering of their dismissal from the program.
   b. Electrical Engineering Leadership Honors Program students must complete and defend their Honors thesis in the second semester of their senior year. Students who do not complete this requirement may, upon the recommendation of their Honors thesis supervisor and the Department of Electrical Engineering, be allowed to continue in the program until the final semester prior to their graduation. Under no circumstances shall the extension be for more than one academic year.

• ELECTRICAL ENGINEERING (EEL) (CIP = 14.1001)
  TOTAL PROGRAM HOURS = 128 CREDIT HOURS

  Four-Year Curriculum in Electrical Engineering (B.S.E.E.)

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution
If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at a Florida College System institution, they must be completed before the degree is granted.

Students qualify for direct entry to the department if they have completed the following courses at a Florida College System institution or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.
Mathematics:

Courses at USF
- MAC 2281 Engineering Calculus I
- MAC 2282 Engineering Calculus II
- MAC 2283 Engineering Calculus III
- MAP 2302 Differential Equations

Courses at a Florida College System Institution
- MAC X311 or MAC X281
- MAC X312 or MAC X282
- MAC X313 or MAC X283
- MAP X302 or MAP X305

Natural Sciences:

Courses at USF
- CHM 045/CHM 2045L General Chemistry I with Lab
- CHS 2440/2440L General Chemistry for Engineers with Lab
- PHY 2048/2048L General Physics I – Calculus Based with Lab
- PHY 2049/2049L General Physics II – Calculus Based with Lab

Courses at a Florida College System Institution
- CHM X045/X045L or CHM X045C
- CHS X440/X440L
- PHY X048/X048L or PHY X048C or PHY X043/X048L
- PHY X049/X049L or PHY X049C or PHY X044/X049L

Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.

Electrical Engineering Admissions Requirements

Admission to the EE Department requires completion of Engineering Calculus I, II & III; Calculus-based Physics I & II (with labs); and Chemistry I (with lab) with a 3.0 overall GPA in these courses (best attempt) and a minimum grade of C in each course (not C-). Continuation in the major requires successful completion of EGN 3373, EGN 3374, and Differential Equations with grades of B (not B-) or higher (best attempt).

Electrical Engineering (EEL), BSEE, 128

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full time engineering students. Students who adhere to the recommended sequence of courses, and complete each course with the required grade, will be fully prepared for each subsequent semester. Registration assistance will be provided by academic advisors in the College of Engineering.

Electrical Engineering Tracks:
- 1. Circuits, Networks, and Systems
- 2. Electronics, Materials and Semiconductors
- 3. Communication Systems and Signal Processing
- 4. Electromagnetics, RF and Microwaves
- 5. Energy and Power Systems
- 6. Digital Circuits and Systems

Fall Semester - Year 1
- EGN 3000 Foundations of Engineering 0
- EGN 3000L Foundations of Engineering Laboratory 1
- ENC 1101 Composition I 3
- MAC 2281 Engineering Calculus I 4
- XXX XXXX FKL Humanities Elective 3
- XXX XXXX FKL Social and Behavioral Sciences Elective 3
- Total 14

Spring Semester - Year 1
- CHM 2045 General Chemistry I 3
- CHM 2045L General Chemistry I Laboratory 1
- ENC 1102 Composition II 3
- MAC 2282 Engineering Calculus II 4
- PHY 2048 General Physics I 3
- PHY 2048L General Physics I Laboratory 1
- Total 15

Fall Semester - Year 2
- EGN 3443 Probability and Statistics for Engineers 3
- EGN 3615 Engineering Economics with Social and Global Implications 3
- MAC 2283 Engineering Calculus III 4
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<th>Course Code</th>
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<td>PHY 2049</td>
<td>General Physics II</td>
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<td>XXX XXXX</td>
<td>FKL General Education Fine Arts</td>
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<tr>
<td>PHY 2049L</td>
<td>General Physics II Laboratory</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

### Spring Semester - Year 2
- EEE 3394  Electronic Materials                        | 3       |
- EEL 2161  EE Computer Methods                          | 3       |
- EGN 3373  Introduction to Electrical Systems I        | 3       |
- EGN 3420  Engineering Analysis                        | 3       |
- MAP 2302  Differential Equations or EGN 3433 Modeling and Analysis of Engineering Systems (Note: EGN 3433 is not a Gordon Rule course) | 3       |
|            | **Total**                                        | **15**  |

### Summer Term - Year 2
- EGN 3374  Electrical Systems II                       | 3       |
- ENC 3246  Communication for Engineers                 | 3       |
- XXX XXXX  FKL Humanities Elective                     | 3       |
|            | **Total**                                        | **9**   |

### Fall Semester - Year 3
- EEE 4351C  Semiconductor Devices                      | 3       |
- EEL 3100  Network Analysis                             | 3       |
- EEL 3115L  Laboratory I                               | 1       |
- EEL 4471  Electromagnetics                             | 3       |
- EEL 4705  Logic Design                                 | 3       |
- EEL 4705L  Logic Laboratory                            | 1       |
|            | **Total**                                        | **14**  |

### Spring Semester - Year 3
- EEE 3302  Electronics I                                | 3       |
- EEL 4102  Linear Systems Analysis                      | 3       |
- EEL 4423L  Wireless Circuits & Systems Design Laboratory | 2       |
- EEL 4743L  Microprocessor Laboratory                   | 1       |
- EEL 4744  Microprocessor Principles and Applications   | 3       |
- EGN 3375  Electromechanical Systems                    | 3       |
|            | **Total**                                        | **15**  |

### Fall Semester - Year 4
- XXX XXXX  Department Upper-Level Elective              | 3       |
- EEL 3116L  Laboratory II                              | 1       |
- EEL 4512C  Introduction to Communication Systems       | 3       |
- EEL 4657  Linear Control Systems                      | 3       |
- EEL 4657L  Linear Controls Laboratory                 | 1       |
- EEL 4906  Engineering Design/Professionalism           | 3       |
|            | **Total**                                        | **14**  |

### Spring Semester - Year 4
- EEL 4914  Senior Design Project                       | 3       |
- XXX XXXX  FKL Human Cultural Diversity and Global Context | 3       |
- XXX XXXX  Department Upper-Level Elective              | 3       |
- XXX XXXX  Department Upper-Level Elective              | 3       |
- XXX XXXX  Department Upper-Level Elective              | 3       |
|            | **Total**                                        | **15**  |

### TOTAL CREDIT HOURS TO DEGREE

**128**

Gordon Rule (6A) is fully met through the mathematics courses above, ENC 1101, ENC 1102, ENC 3246 and by selecting one technical or general education elective that is an approved 6A communication course or by completing an AA degree at a Florida College System institution.

Foundations of Learning and Knowledge Core Curriculum: The math and science courses required for this major fully meet the math and science requirements of the FKL core curriculum. Students in the College of Engineering are...
exempt from the “Life Science” requirement.

The writing intensive and capstone design requirements are fully met through ENC 3246 and EEL4914.

Departmental Policy: For EE majors a minimum grade of “B” is required for EGN 3373, EGN 3374 and Differential Equations.

Electrical Engineering Faculty


Department of Industrial and Management Systems Engineering

Undergraduate Degree Offered:
Bachelor of Science in Industrial Engineering (B.S.I.E.)

Graduate Degrees Offered:
Master of Science in Industrial Engineering (M.S.I.E.)
Master of Science in Engineering Management (M.S.E.M)
Master of Industrial Engineering (M.I.E.)
Doctor of Philosophy in Industrial Engineering (Ph.D.)

This department offers study pertinent to the design, evaluation and operation of a variety of industrial systems, ranging from the analysis of public systems to the operation of manufacturing plants. Topics include production planning and control, quality and reliability, experimental design, computer simulation, applied statistics, big data analytics, operations research, human factors, manufacturing, and automation. The department has excellent laboratory facilities that support projects and research in collaboration with industry and in non-traditional manufacturing systems such as service, healthcare and transportation. Classroom learning is supported by laboratory experience in computer applications, computer-aided manufacturing, human performance, automation, and applications of robotics. The Accelerated Graduate Program (formerly called the 5 year program) in Engineering Management allows qualified students in any participating Engineering major to simultaneously enroll in graduate and undergraduate courses. Up to six credit hours of approved courses may be counted towards both the bachelor’s and the master’s degrees, reducing the total number of credit hours required to complete both degrees.

The Master of Science in Engineering Management is a multidisciplinary graduate degree program directed towards engineers who want to transition to technical management. Courses in the program involve concepts in engineering management, resource management, strategic planning, and productivity. The program offers evening and off-campus courses.

Mission Statement

The mission of the IMSE Department is to assure student success through a high quality education which integrates the latest research and practices of the field; pursue excellence in interdisciplinary research and innovation; engage with the profession and the community.

Objectives

Our graduates are expected to have:
• applied industrial engineering effectively and creatively;
• demonstrated effective communication and teamwork;
• engaged in community service and leadership;
• continued to pursue life-long learning.

Departmental Policies

In addition to the College’s graduation requirement, the department has the following policies:
1. Mandatory academic advising and mentoring of students for each term.
2. An exit interview is a graduation requirement.
3. Minimum grade in degree required math, science, engineering and specialization courses is a C or better, C- is insufficient.
**INDUSTRIAL ENGINEERING (EIE) (CIP = 14.3501)**

TOTAL PROGRAM HOURS = 128 CREDIT HOURS

Four-Year Curriculum in Industrial and Management Systems Engineering (B.S.I.E.)

**Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution:**

If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at a Florida College System institution, they must be completed before the degree is granted. Unless stated otherwise, a grade of C is the minimum acceptable grade.

Students qualify for direct entry to the department if they have completed the following courses at a Florida College System institution or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the University.

### Mathematics:

<table>
<thead>
<tr>
<th>Courses at USF</th>
<th>Courses at a Florida College System Institution</th>
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</thead>
<tbody>
<tr>
<td>MAC 2281 Engineering Calculus I</td>
<td>MAC X311 or MAC X281</td>
</tr>
<tr>
<td>MAC 2282 Engineering Calculus II</td>
<td>MAC X312 or MAC X282</td>
</tr>
<tr>
<td>MAC 2283 Engineering Calculus III</td>
<td>MAC X313 or MAC X283</td>
</tr>
<tr>
<td>MAP 2302 Differential Equations</td>
<td>MAP X302 or MAP X305</td>
</tr>
</tbody>
</table>

### Natural Sciences:

<table>
<thead>
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<th>Courses at USF</th>
<th>Courses at a Florida College System Institution</th>
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</thead>
<tbody>
<tr>
<td>CHM 045/CHM 2045L General Chemistry I with Lab</td>
<td>CHM X045/X045L or CHM X045C or CHS X440/X440L</td>
</tr>
<tr>
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<td>PHY 2048/2048L General Physics I – Calculus Based with Lab</td>
</tr>
<tr>
<td>PHY 2049/2049L General Physics II – Calculus Based with Lab</td>
<td>PHY X049/X049L or PHY X049C or PHY X044/X049L</td>
</tr>
</tbody>
</table>

Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.

### Industrial Engineering Admissions Requirements

Transfer students must have completed the equivalent USF Engineering Calculus sequence with a minimum of 2.00 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum grade of C or better and a 2.00 GPA; must have a USF and overall GPA of 2.00 or better.

### Industrial Engineering (EIE), BSIE, 128

The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full time engineering students. Students who adhere to the recommended sequence of courses, and complete each course with the required grade, will be fully prepared for each subsequent semester. Registration assistance will be provided by academic advisors in the College of Engineering.

#### Fall Semester - Year 1

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CHS 2440 General Chemistry for Engineers</td>
<td>3</td>
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<tr>
<td>CHS 2040L General Chemistry for Engineers Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EGN 3000 Foundations of Engineering</td>
<td>0</td>
</tr>
<tr>
<td>EGN 3000L Foundations of Engineering Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENC 1101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MAC 2281 Engineering Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>XXX XXXX FKL Social and Behavioral Sciences Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
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#### Spring Semester - Year 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENC 1102 Composition II</td>
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<tr>
<td>MAC 2282 Engineering Calculus II</td>
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## College of Engineering

### University of South Florida 2013-2014 Undergraduate Catalog

<table>
<thead>
<tr>
<th>Course</th>
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<td>PHY 2048L</td>
<td>General Physics I Laboratory</td>
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<td>XXX XXXX</td>
<td>FKL Humanities Elective</td>
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<td>XXX XXXX</td>
<td>FKL Fine Arts Elective</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>Fall Semester - Year 2</strong></td>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EGN 3443</td>
<td>Probability &amp; Statistics for Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EGN 4450</td>
<td>Introduction to Linear Systems</td>
<td>2</td>
</tr>
<tr>
<td>MAC 2283</td>
<td>Engineering Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2049</td>
<td>General Physics II</td>
<td>3</td>
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<tr>
<td>PHY 2049L</td>
<td>General Physics II Laboratory</td>
<td>1</td>
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<tr>
<td>XXX XXXX</td>
<td>FKL Humanities Elective</td>
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<td><strong>Total</strong></td>
<td><strong>Spring Semester - Year 2</strong></td>
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<tbody>
<tr>
<td>EGS 1113</td>
<td>Introduction to Design Graphics</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3311</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3373</td>
<td>Introduction to Electrical Systems I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3365</td>
<td>Materials Engineering I</td>
<td>3</td>
</tr>
<tr>
<td>MAP 2302</td>
<td>Differential Equations or EGN 3433 Modeling and Analysis of Engineering Systems (Note: EGN 3433 is not a Gordon Rule course)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Summer Term - Year 2</strong></td>
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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ENC 3246</td>
<td>Communication for Engineers (FKLWRIN EXIT Course)</td>
<td>3</td>
</tr>
<tr>
<td>ESI 2009</td>
<td>Introduction to Engineering Programming</td>
<td>3</td>
</tr>
<tr>
<td>EIN 4312C</td>
<td>Work Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EIN 4621</td>
<td>Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>ESI 4312</td>
<td>Deterministic Operations Research</td>
<td>3</td>
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<td><strong>Total</strong></td>
<td><strong>Fall Semester - Year 3</strong></td>
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<tr>
<td>EIN 4333</td>
<td>Production Control</td>
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<tr>
<td>ESI 4221</td>
<td>Industrial Statistics and Quality Control</td>
<td>3</td>
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<tr>
<td>ESI 4313</td>
<td>Probabilistic Operations Research</td>
<td>3</td>
</tr>
<tr>
<td>ESI 4620</td>
<td>Design of Industrial Information Systems</td>
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<td>XXX XXXX</td>
<td>Industrial Engineering Technical Elective</td>
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<tr>
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<tbody>
<tr>
<td>ESI 4606</td>
<td>Engineering Analytics I</td>
<td>3</td>
</tr>
<tr>
<td>EIN 4364</td>
<td>Facilities Design</td>
<td>3</td>
</tr>
<tr>
<td>ESI 4244</td>
<td>Design of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>ESI 4523</td>
<td>Systems Simulation</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>Department Upper-Level Elective - Industrial Engineering Technical Elective</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Fall Semester - Year 4</strong></td>
<td><strong>14</strong></td>
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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>EIN 4243C</td>
<td>Human Factors</td>
<td>3</td>
</tr>
<tr>
<td>EIN 4601C</td>
<td>Automation and Robotics</td>
<td>3</td>
</tr>
<tr>
<td>EIN 4891</td>
<td>Capstone Design</td>
<td>3</td>
</tr>
<tr>
<td>ESI 4607</td>
<td>Engineering Analytics II</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>Spring Semester - Year 4</strong></td>
<td><strong>12</strong></td>
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</tbody>
</table>

| **Total Credit Hours to Degree** | **128** |

268
Gordon Rule (6A) is fully met through the mathematics courses above, ENC 1101, ENC 1102, ENC 3246 and EIN 4243C or by completing an AA degree at a Florida College System institution.

Foundations of Learning and Knowledge Core Curriculum: The math and science courses required for this major fully meet the math and science requirements of the FKL core curriculum. Students in the College of Engineering are exempt from the “Life Science” requirement.

The writing intensive and capstone design exit requirements are fully met through ENC 3246 and EIN 4891.

Industrial and Management Systems Faculty
Chairperson and Professor: T.K. Das; Professors: O.G. Okogbaa, J. Zayas-Castro; Associate Professors: G. Centeno, S. Lai-Yuen, K. Reeves, A. Savachkin M.X. Weng, A. Yalcin; Assistant Professors: S. Huang, H. Yang, B. Zeng; Instructors: P. Schnitzler, P. Zarate.

Department of Mechanical Engineering
Undergraduate Degree Offered:
Bachelor of Science in Mechanical Engineering (B.S.M.E.)

Graduate Degrees Offered:
Master of Mechanical Engineering (M.M.E.)
Master of Science in Mechanical Engineering (M.S.M.E.)*
Master of Engineering (M.E.)
Master of Science in Engineering (M.S.E.)
Doctor of Philosophy in Mechanical Engineering (Ph.D.)
Doctor of Philosophy in Engineering Science (Ph.D.)

*The Department offers a combined B.S./M.S. five year degree program.

Students pursuing the Bachelor of Science in Mechanical Engineering program take coursework in thermodynamics, heat transfer, instrumentation, measurements, solid and fluid mechanics, dynamics, machine analysis and design, mechanical design, manufacturing processes, vibrations and controls. This is supplemented by elective coursework in such areas as sustainability, internal combustion engines, refrigeration and air conditioning, mechanical design, robotics, propulsion, computer-aided design, manufacturing, bio-engineering, alternative energy, thermal design, composite materials, and tribology. Laboratories are available for basic instrumentation, thermal and fluid sciences, solid mechanics, data acquisition, controls, CAD/CAE, and vibrations.

Graduates of this program are employed in design, manufacturing, contracting, operations, marketing, and management in virtually all segments of industry and government, including, but not limited to: aeronautics, aerospace and propulsion; automotive, internal combustion engines, fuel cells and transportation; propulsion systems; electronic utilities and power generation; heating, ventilation and air conditioning; structures and machinery design; mining and oil exploration; paper, textile, food, and petrochemical industries/process/manufacturing; micro and nano materials and semiconductors; and biomaterials and bioengineering. There are abundant career opportunities in a wide range of industries because mechanical equipment is required in every aspect of modern industry.

Mission Statement
The Mission of the Mechanical Engineering Department is:

a. to provide an exemplary undergraduate and graduate education for students entering the mechanical engineering profession or seeking careers in related fields;
b. to advance scientific knowledge through basic and applied research;
c. to disseminate technical information through scholarly publication and presentation, and continuing education;
d. to advance the profession through service within the associated societies;
e. to promote activities which embrace global development.

Objectives
The objectives of the Undergraduate Program in Mechanical Engineering are:

a. Our graduates will successfully apply concepts of science, mathematics, computation, and engineering in their chosen endeavor;
b. Our graduates will possess knowledge and skills essential to engineering processes, such as design, analysis, synthesis, fabrication and experimental techniques;
c. Our graduates will demonstrate skills for professional interaction and leadership including multi-disciplinary collaboration, and effective oral and written communication.
d. Our graduates will understand technology within a global, societal and economic context. They will also demonstrate continued career development as well as professional and ethical responsibility.
Departmental Policies
The Department has the following policies:

a. Mandatory academic advising of students for each term,
b. Exit interviews as a graduation requirement,
c. Students are encouraged to take the FE Exam.

Admissions Requirements
Students entering the Mechanical Engineering department must have completed the equivalent USF Engineering Calculus sequence (Engineering Calculus I, II & III), one year equivalent USF General Physics (General Physics I & II with lab), and one semester equivalent USF General Chemistry (with lab) with a 3.00 overall GPA based on best attempt.

• MECHANICAL ENGINEERING (EME) (CIP = 14.1901)
TOTAL PROGRAM HOURS = 128 CREDIT HOURS

Four-Year Curriculum in Mechanical Engineering (B.S.M.E.)

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Students should complete the prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at a Florida College System institution, they must be completed before admission into the department is granted. A grade of C is the minimum acceptable grade in prerequisite courses.

Students qualify for direct entry to the department if they have completed the following courses at a Florida College System institution or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

Some courses required for the major may also meet General Education Requirements.

Mathematics:

<table>
<thead>
<tr>
<th>Courses at USF</th>
<th>Courses at a Florida College System Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2281 Engineering Calculus I</td>
<td>MAC X311 or MAC X281</td>
</tr>
<tr>
<td>MAC 2282 Engineering Calculus II</td>
<td>MAC X312 or MAC X282</td>
</tr>
<tr>
<td>MAC 2283 Engineering Calculus III</td>
<td>MAC X313 or MAC X283</td>
</tr>
<tr>
<td>MAP 2302 Differential Equations</td>
<td>MAP X302 or MAP X305</td>
</tr>
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</table>

Natural Sciences:

<table>
<thead>
<tr>
<th>Courses at USF</th>
<th>Courses at a Florida College System Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 045/CHM 2045L General Chemistry I with Lab</td>
<td>CHM X045/X045L or CHM X045C or CHS X440/X440L</td>
</tr>
<tr>
<td>CHS 2440/2440L General Chemistry for Engineers with Lab</td>
<td>PHY 2048/2048L General Physics I – Calculus Based with Lab</td>
</tr>
<tr>
<td>PHY 2048/2048L General Physics I – Calculus Based with Lab</td>
<td>PHY 2049/2049L General Physics II – Calculus Based with Lab</td>
</tr>
</tbody>
</table>

A grade of C is the minimum acceptable grade in these prerequisite courses.

Students qualify for direct entry to the department if they have completed thesis courses at a Community College or University in the Florida State University System (SUS) and meet all other admissions requirements of the University and College.

If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Please be aware of the immunization, foreign language, continuous enrollment policies, and qualitative standards of the university.

Grade Requirements
Students in the Mechanical Engineering Department must have and maintain a minimum 2.00 GPA in EGN engineering and EML specialization courses, as well as a minimum overall and USF GPA of 2.00. A grade of C- is the minimum acceptable grade for EGN and EML courses which are prerequisites to other EGN and EML courses.

Curriculum for BSME, (128 credit hours)
The schedule that follows indicates the required courses for this degree program and the recommended sequence of registration for full time engineering students. Students who adhere to the recommended sequence of courses, and
complete each course with the required grade, will be fully prepared for each subsequent semester. Registration assistance will be provided by academic advisors in the College of Engineering.

### Fall Semester - Year 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHS 2440</td>
<td>Chemistry for Engineers</td>
<td>3</td>
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<tr>
<td>CHS 2440L</td>
<td>Chemistry for Engineers Laboratory</td>
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<tr>
<td>EGN 3000</td>
<td>Foundations of Engineering</td>
<td>0</td>
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<tr>
<td>EGN 3000L</td>
<td>Foundations of Engineering Laboratory</td>
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<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MAC 2281</td>
<td>Engineering Calculus I</td>
<td>4</td>
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<tr>
<td>XXX XXXX</td>
<td>FKL Humanities Elective</td>
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### Spring Semester - Year 1

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<tr>
<td>ENC 1102</td>
<td>Composition II</td>
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<td>MAC 2282</td>
<td>Engineering Calculus II</td>
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<tr>
<td>PHY 2048</td>
<td>General Physics I</td>
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<td>PHY 2048L</td>
<td>General Physics I Laboratory</td>
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<td>XXX XXXX</td>
<td>FKL Fine Arts Elective</td>
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### Fall Semester - Year 2

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<tr>
<td>EGN 3311</td>
<td>Statics</td>
<td>3</td>
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<tr>
<td>XXX XXXX</td>
<td>FKL Social and Behavioral Sciences Elective</td>
<td>3</td>
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<tr>
<td>MAC 2283</td>
<td>Engineering Calculus III</td>
<td>4</td>
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<tr>
<td>PHY 2049</td>
<td>General Physics II</td>
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<td>PHY 2049L</td>
<td>General Physics II Laboratory</td>
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### Spring Semester - Year 2

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<tbody>
<tr>
<td>EGN 3321</td>
<td>Dynamics</td>
<td>3</td>
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<td>EGN 3365</td>
<td>Materials Engineering I</td>
<td>3</td>
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<tr>
<td>EGN 3373</td>
<td>Introduction to Electrical Systems I</td>
<td>3</td>
</tr>
<tr>
<td>EML 3035</td>
<td>Programming Concepts for Mechanical Engineers</td>
<td>1</td>
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<tr>
<td>MAP 2302</td>
<td>Differential Equations</td>
<td>3</td>
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<tr>
<td>XXX XXXX</td>
<td>FKL Social and Behavioral Sciences Elective</td>
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### Summer Term - Year 2

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<tr>
<td>EGN 3343</td>
<td>Thermodynamics I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3443</td>
<td>Engineering Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>EML 3500</td>
<td>Mechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>EML 3022</td>
<td>Computer Aided Engineering (CAD)</td>
<td>3</td>
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<td><strong>Total</strong></td>
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### Fall Semester - Year 3

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<tr>
<td>EML 3041</td>
<td>Computational Methods</td>
<td>3</td>
</tr>
<tr>
<td>EML 3262</td>
<td>Kinematics and Dynamics of Machinery</td>
<td>3</td>
</tr>
<tr>
<td>EML 3701</td>
<td>Fluid Systems</td>
<td>3</td>
</tr>
<tr>
<td>EML 4325</td>
<td>Mechanical Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>ENC 3246</td>
<td>Communication for Engineers</td>
<td>3</td>
</tr>
<tr>
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### Spring Semester - Year 3

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EML 3303</td>
<td>Mechanical Engineering Lab I</td>
<td>3</td>
</tr>
<tr>
<td>EML 4123</td>
<td>Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>EML 4501</td>
<td>Machine Design</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>FKL Human &amp; Cultural Diversity in a Global Context Elective</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>Department Upper-Level Elective (Technical Design Elective)</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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</table>
Fall Semester - Year 4

EML 4106C  Thermal Systems and Economics  3
EML 4220   Vibrations            3
EML 4302   Mechanical Engineering Laboratory II  3
XXX       XXXX    Department Upper-Level Elective (Technical Design Elective)  3
XXX       XXXX    FKL Humanities Elective  3
Total                                           15

Spring Semester - Year 4

EML 4312   Mechanical Controls  3
EML 4551   Capstone Design            3
XXX       XXXX    Department Upper-Level Elective (Technical Design Elective)  3
XXX       XXXX    Department Upper-Level Elective (Technical Design Elective)  3
Total                                           12

TOTAL CREDIT HOURS FOR BSME   128

Gordon Rule (6A) is fully met through the mathematics courses above, ENC 1101, ENC 1102, ENC 3246 and by selecting one general education elective that is an approved 6A communication course or by completing an AA degree at a Florida College System institution.

The math and science courses required for this major fully meet the math and science requirements of the Foundations of Learning and Knowledge core curriculum. Students in the College of Engineering are exempt from the “Life Science” requirement.

The writing intensive and capstone design exit requirements are fully met through EML 4551 and ENC 3246.

Mechanical Engineering Faculty

Division of Information Technology

The Mission of the Information Technology Program is to provide high quality educational opportunities for students interested in pursuing careers in the broad range of fields that support our computer/information-based society and economy. Additionally to utilize the resources of the program to provide service to society; and to emphasize to students the need for lifelong learning, ethical conduct and an understanding of the diverse social context in which Information Technology is practiced. Courses in this major are available online.

Specifically the program aspires to:
1. Lead to the advancement of Information Technology through nationally recognized education at the undergraduate level, as well as technology transfer to regional industries and businesses;
2. Prepare students for full and ethical participation in a diverse society and encourage lifelong learning;
3. Educate undergraduates in the best practices of the field as well as integrate the latest research and practices into the curriculum;
4. Emphasize the development of problem solving and communication skills as an integral component of the educational process and the later practice of the discipline;
5. Provide quality learning experiences through highly interactive techniques of course delivery that will include the use of electronic support equipment as well as newly developing distance learning technologies.

Objectives:
Information Technology program graduates will:
1. Have the requisite education and skills to be immediately employable as professionals in our computer/information-based society
2. Be prepared to enter into graduate studies in a number of related graduate programs
3. Be ethical and responsible members of their profession and society as a whole
4. Be well founded in the variety of sub-disciplines that comprise Information Technology which include basic principles of computation, mathematics, science and engineering.
• INFORMATION TECHNOLOGY (ITC) (CIP = 11.0103 - Track 1 of 4)
  TOTAL PROGRAM HOURS = 120 CREDIT HOURS

The Information Technology (IT) program is designed to bridge the gap between computer science and management information systems. The emphasis of the program is on knowledge-based computer and information technology, traditional computer science concepts, as well as more practical topics including programming, applications, and networking, systems administration and the management of a variety of computing environments (in an era of rapidly changing technology). IT students will take coursework in computer organization, human-computer interface, data structures, operating systems, networking, databases, and software engineering. Electives can include such application areas as: advanced database, advanced networking, web page design and administration, and e-commerce as well as a variety of other related areas. Through a broad based set of electives, IT students will be able to tailor their program to satisfy individual preferences and strengths.

Students completing the IT program will qualify for a broad range of positions in computer-intensive businesses and industry such as: programmer analyst, systems analyst, database administrator, network administrator, computer resource manager, systems development manager, and information technology management, to name a few.

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless otherwise stated, a grade of C is the minimum acceptable grade.

- PSY XXXX  Any Psychology course
- STA X023 Introductory Statistics I or STA X122
- ECO X013 Principles of Economics (Macroeconomics)
- CGS XXXX  Any Database course
- COP XXXX  Any Computer Programming course
- MAC XXXX  Any Pre-Calculus course
- PHY XXXX  Any Physics course
- XXXX XXXX  Any Discrete Math course
- COP XXXX  Any Object-Oriented Computer Programming course

In addition to the University's graduation requirements, the program has the following policies:

1. Mandatory academic advising of each student each term,
2. Exit interviews as a graduation requirement for all students, and
3. Only grades of C and above in IT courses can be used to fulfill graduation requirements.

Curriculum for BSIT (120 credit hours)

The schedule that follows indicates how a diligent student, who can devote full time to coursework and can satisfy requirements in four academic years. Students without a solid foundation, or those who cannot devote full time to academics, should plan for a slower pace.

**Fall Semester - Year 1**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>FKL Gen Ed Human and Cultural Diversity in a Global Context Elective</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>FKL General Education Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>COP 1930</td>
<td>Special Topics for Information Technology (database)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>15</strong></td>
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**Spring Semester - Year 1**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENC 1102</td>
<td>Composition II</td>
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<tr>
<td>MAC 1147</td>
<td>Precalculus Algebra and Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>ECO 2013</td>
<td>Economic Principles (Macroeconomics)</td>
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</tr>
<tr>
<td>PSY 2012</td>
<td>Psychological Science I</td>
<td>3</td>
</tr>
<tr>
<td>COP 2510</td>
<td>Programming Concepts</td>
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**Fall Semester - Year 2**

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>XXX XXXX</td>
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</tr>
<tr>
<td>STA 2023</td>
<td>Introductory Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>COP 2931</td>
<td>Special Topics for Information Technology (object-oriented programming)</td>
<td>3</td>
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<td>Course</td>
<td>Credits</td>
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<tr>
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<tr>
<td>MAC 2311 Calculus I or MAC 2281 Engineering Calculus I (prereq. for MAD 3107)</td>
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<td>XXX XXXX Free Elective</td>
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**Spring Semester - Year 2**

<table>
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<tr>
<th>Course</th>
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<tr>
<td>PHY 2020 Conceptual Physics</td>
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<tr>
<td>MAD 3107 Discrete Math</td>
<td>3</td>
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<tr>
<td>XXX XXXX FKL General Education Humanities Elective</td>
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<tr>
<td>XXX XXXX FKL General Education Fine Arts Elective</td>
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<tr>
<td>ENC 2210 Technical Writing or ENC 3310 Expository Writing (prereq. for ENC 4260)</td>
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**Fall Semester - Year 3**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>COP 3515 Program Design for Information Technology</td>
<td>3</td>
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<tr>
<td>ENC 3246 Communication for Engineers</td>
<td>3</td>
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<tr>
<td>INR 3033 International Political Cultures</td>
<td>3</td>
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<tr>
<td>CGS 3303 IT Concepts</td>
<td>3</td>
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<tr>
<td>CEN 3722 Human Computer Interfaces for Information Technology</td>
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**Spring Semester – Year 3**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CDA 3101 Computer Organization for Information Technology</td>
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<tr>
<td>EEL 4782 Computer Information Networks for Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4782L Information Networks Laboratory for Information Technology</td>
<td>1</td>
</tr>
<tr>
<td>CGS 4854 Data Structures and Algorithms for Information Technology</td>
<td>3</td>
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<tr>
<td>ENC 4260 Advanced Technical Writing</td>
<td>3</td>
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<td>XXX XXXX IT Approved Elective</td>
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**Fall Semester - Year 4**

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<th>Course</th>
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<tr>
<td>COP 4703 Database Systems for Information Technology</td>
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<tr>
<td>CEN 4031 Software Engineering Concepts for Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>COP 4610 Operating Systems for Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX IT Approved Elective</td>
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</tr>
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<td>XXX XXXX IT Approved Elective</td>
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**Spring Semester – Year 4**

<table>
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<tr>
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<tr>
<td>COP 4930 Information Technology Seminar*</td>
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<tr>
<td>CIS 4935 Senior Project in Information Technology**</td>
<td>3</td>
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<tr>
<td>CIS 4253 IT Ethics</td>
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</tr>
<tr>
<td>XXX XXXX Approved Capstone Exit Course</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX IT Approved Elective</td>
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</table>

**TOTAL CREDIT HOURS TO DEGREE** 120

*COP 4930 Information Technology Seminar includes attendance at department-sponsored colloquia as well as attendance at student presentations of their senior projects. Colloquia and senior project attendance at any time during your program can be accumulated and used to satisfy the requirements of COP 4930 when you actually register for that course.

** - CIS 4935 Senior Project in Information Technology is typically a three-credit hour course. Students who need one or two additional hours to meet the credit hour requirement for their degree may take this course for four or five credit hours. Projects in excess of three credit hours will be expected to be more challenging or to have more depth. The University requires students to take nine credit hours during the summer. IT major students should use the summer terms for catch up in the program and internships.
Requirements for the IT General Minor (ITG)
The IT General Minor (15 semester hours) is aimed at providing a good understanding of the concepts underlying Information Technology while enabling the student to choose four elective topics in which to specialize. These electives encompass a wide spectrum of topics such as programming, networking and web design, Human Computer Interface and Security Management. The outcome of this program is to build a solid culture of IT technologies and disciplines from scratch.

Required Course (3 credit hours):
CGS 3303IT Concepts (a prerequisite is required for this course)

Electives (12 credit hours):
CDA 3101 Computer Organization for Information Technology (prerequisites required for this course)
CEN 3722 Human Computer Interfaces for Information Technology
CIS 4361 Information Technology Security Management
CIS 4412 Information Technology Resource Management
COP 3515 Program Design for Information Technology (prerequisites required for this course)
EEL 4782 Computer Information Networks for Information Technology
EEL 4782L Information Networks Laboratory for Information Technology
EEL 4854 Data Structures and Algorithms for IT (prerequisites required for this course)
ETG 4931 Special Topics in Technology I
ETG 4932 Special Topics in Technology II

Requirements for the IT Technical Minor (ITE)
The IT Technical Minor (24 semester hours) enforces basic scientific pre-requisites and requires interested students to attend three core IT courses meant to provide them with the conceptual and technical basis necessary to successfully dwell in more advanced topics. The elective part of the IT Technical Minor is composed of two electives to be chosen from a larger set of courses including Data Base Systems and Operating System. Successful students are expected to develop a conceptual understanding of the IT field while developing programming skills they may apply to strengthen their major.

Prerequisite Courses (9 credit hours):
COP 2930 Special Topics for Information Technology
COT 3100 Introduction to Discrete Structures or equivalent (a prerequisite is required for this course)
PHY XXXX Any Physics course

Required Courses (9 credit hours):
CGS 3303 IT Concepts (a prerequisite is required for this course)
COP 3515 Program Design for Information Technology (a prerequisite is required for this course)
CIS 4412 Information Technology Resource Management

Electives (choose four from list):
CDA 3101 Computer Organization for Information Technology (prerequisites required for this course)
CEN 3722 Human Computer Interfaces for Information Technology
CEN 4031 Software Engineering Concepts for IT (prerequisites required for this course)
CIS 4361 Information Technology Security Management
CIS 4412 Information Technology Resource Management
COP 4610 Operating Systems for Information Technology (prerequisites required for this course)
COP 4610L Operating Systems Laboratory for IT (prerequisites required for this course)
COP 4703 Database Systems for Information Technology (prerequisites required for this course)
EEL 4782 Computer Information Networks for Information Technology
EEL 4782L Information Networks Laboratory for Information Technology
ETG 4931 Special Topics in Technology I
ETG 4932 Special Topics in Technology II

UNDERGRADUATE CERTIFICATE PROGRAMS IN INFORMATION TECHNOLOGY
There are two undergraduate specialization certificates available to BSIT or BSAS/BGS IT concentration students. To earn either of these certificates, a student must complete a specified list of courses, earning in each course a minimum grade of B. All prerequisites for these courses must also be satisfied.
CERTIFICATE OF SPECIALIZATION IN INFORMATION SECURITY

The student must complete five courses (15 credit hours) in Information Security. The certificate will be issued when a student has earned and received no less than a grade of "B" in each of the five classes in their concentrated certificate program.

The student must complete 15 hours selected from the following:

- CIS 3360 Principles of Information Security
- CIS 3362 Cryptography and Information Security
- CGS 3374 Computer Architecture and Operating Systems
- CNT 3403 Network Security and Firewalls
- CIS 4365 Computer Security Policies & Disaster Preparedness
- CIS 4361 Information Technology Security Management
- ETG 493X Special Topics in Information Technology

CERTIFICATE OF SPECIALIZATION IN WEB DEVELOPMENT

The student must complete five courses (15 credit hours) in web development. The certificate will be issued when a student has earned and received no less than a grade of B in each of the five classes in their concentrated certificate program.

The student must complete 15 hours selected from the following:

- CGS 3853 IT Web Design
- COP 4703 Database Systems for Information Technology
- COP 4834 Data-Driven Web Sites
- CTS 4805 Web Development Tools
- CGS 3845 E-Commerce
- COP 4816 XML Applications
- COP 4814 Web Services
- ETG 493X Special Topics in Information Technology

POST-BACCALAUREATE CERTIFICATE PROGRAMS IN INFORMATION TECHNOLOGY

There are two post-baccalaureate Information Technology (IT) certificates available. Both certificates are designed for students who hold bachelor’s degrees in fields other than IT, but do not seek either a master’s degree or a complete undergraduate degree in IT.

Students wanting to enter one of the IT Certificate programs need to fill out an application to apply and have an official transcript sent from the College or University where they completed their undergraduate degree. The transcript is used to first verify that the student completed their undergraduate degree and second to identify if any additional prerequisite classes will be required.

IT MANAGEMENT CERTIFICATE

This certificate is designed to provide the student an application-oriented managerial background in IT. The typical student pursuing this certificate is not looking to change careers, but rather looking to enhance their technical abilities in their existing job. A four year Bachelor’s degree plus some prerequisites are required to enter the IT Management Certificate Program.

The prerequisites to enter the IT Management Certificate program are a four year undergraduate degree plus the following:

- MAC XXXX Any Pre-Calculus course
- STA 2023 Introductory Statistics
- Any Basic Computer Skills course (Word Processing, Spreadsheets, Windows, etc.)

NOTE: The course numbers may be different depending on the university. IT advisors will make the determination whether or not the student has satisfied these requirements based on supportive material (such as catalog descriptions, official letters, etc.) supplied by the student.

After admission to the IT Management Certificate program, the student must complete 15 credit hours selected from the following:

- CEN 3722 Human Computer Interfaces for Information Technology
- CGS 3853 IT Web Design
- CGS 3845 Electronic Commerce
- CIS 4361 Information Technology Security Management
- CIS 4412 Information Technology Resource Management
- CIS 4935 Senior Project in Information Technology
- COP 4930 Information Technology Seminar
- ENC 4260 Advanced Technical Writing
IT PROFESSIONAL CERTIFICATE

This certificate (30 semester hours) is designed to help students change careers, i.e. begin a new career as an IT Professional. All classes (15 hours) taken in the IT Management Certificate directly apply toward the IT Professional Certificate. Therefore, each student having completed the IT Management Certificate will only need 15 additional hours to complete the IT Professional Certificate. However, certain additional prerequisites may be required of the student prior to taking the advanced technically oriented classes contained in the IT Professional Certificate.

The prerequisites to enter the IT Professional Certificate program are a four year undergraduate degree plus the following:

STA 2023 Introductory to Statistics
CGS XXXX Any Database course
COP 2XXX Programming Concepts course
COP 2XXX Object-Oriented Programming course
MAC XXXX Any Pre-Calculus course
MAD XXXX Discrete Mathematics course

NOTE: The course numbers may be different depending on the university. IT advisors will make the determination whether or not the student has satisfied these requirements based on supportive material (such as catalog descriptions, official letters, etc.) supplied by the student.

After admission to the IT Professional Certificate program, the student must complete the following 30 hour program:

**Required courses (12 credit hours):**
CDA 3101 Computer Organization for Information Technology
COP 3515 Program Design for Information Technology
COP 4610 Operating Systems for Information Technology
EEL 4854 Data Structures and Algorithms for Information Technology

**Electives (18 credit hours):**
CEN 3722 Human Computer Interfaces for Information Technology
CEN 4031 Software Engineering Concepts for Information Technology
CGS 3853 IT Web Design
CGS 3845 Electronic Commerce
CIS 4361 Information Technology Security Management
CIS 4412 Information Technology Resource Management
CIS 4703 Database Systems for Information Technology
CIS 4935 Senior Project in Information Technology
COP 4930 IT Seminar
EEL 4782 Computer Information Networks for Information Technology
EEL 4782L Information Networks Laboratory for Information Technology
ENC 4260 Advanced Technical Writing
ETG 4931 Special Topics in Technology I
XXX XXXX IT Current Topics
XXX XXXX IT Approved Elective

Information Technology Faculty

Director: W. Armitage; Associate Professor: W. Armitage.
Important Notice: Beginning Fall 2012, students will no longer be allowed to declare Pre-Athletic Training as a major, because the major is closed to new, incoming first-year and transfer students. The last applications for the undergraduate Bachelor of Science in Athletic Training program will be accepted in Spring of 2014 for admission in Summer 2014 for all current USF Pre-Athletic Training Students.

- **Athletic Training (BAT) (CIP = 51.0913)**
  - **TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

  The undergraduate Athletic Training Degree is a limited access program designed to prepare students for a successful career as an athletic trainer. Athletic Trainers are health care professionals who collaborate with physicians to optimize activity and participation of patients and clients. Athletic training encompasses the prevention, diagnosis, and intervention of emergency, acute, and chronic medical conditions involving impairment, functional limitations, and disabilities. Admission to the degree is gained through completion of required criteria set forth by the Department of Orthopedics and Sports Medicine in addition to the regular university application process. Successful completion of the degree qualifies students to sit for the Board of Certification Examination and eligible for Florida or any other state Athletic Trainer Licensure. The Athletic Training Program is accredited by the Commission on Accreditation of Athletic Training Education Programs (CAATE).

  This is a full-time two-year program with a considerable clinical education component. Students must be available for class from 8am - 12pm daily and from 2pm - 7pm daily for clinical education. Considerable evening and weekend hours may also be required. Students will accumulate a minimum of 250 hours of clinical education per semester. This program follows an alternate calendar that includes summers and non-traditional class times.

  Graduates from this program establish successful careers as athletic trainers in secondary schools, colleges and universities, professional sports programs, sports medicine clinics, and other athletic health care settings. Interested students should visit our web site at [http://health.usf.edu/medicine/orthopaedic/athletictraining/index.htm](http://health.usf.edu/medicine/orthopaedic/athletictraining/index.htm). The web site offers students a proposed four-year course sequence, a description of our program, a listing of approved clinical sites, and dates/times of information meetings.

### Degree Requirements

In order to be admitted to the Athletic Training Education Program, students must participate in a selective admissions procedure. Information meetings are held each semester to provide students with information, applications and forms. Times and locations are listed on the program’s web site at [http://health.usf.edu/medicine/orthopaedic/athletictraining/index.htm](http://health.usf.edu/medicine/orthopaedic/athletictraining/index.htm). Pre-Athletic Training majors enrolled at USF may also access information through Canvas.

Enrollment in the program is limited and students must apply before February 1 of each year to be considered for admission the following Summer “C” Session. Students must complete at least 60 semester credit hours of the total 120 credit hours required for graduation prior to admission. The admission process includes prior admission to the University, application to the athletic training program, submission of all transcripts, recommendation forms, blood-borne pathogen training, 50 hours of observation of a certified athletic trainer, first aid and CPR certification, and a written essay on career goals. Students are given a pre-interview score consisting of scores for GPA, GPA in prerequisite classes, professional involvement, leadership ability, recommendations, observation hours and essay. Top candidates will be invited for an interview. Interviews are typically held the last weekend in February yearly. Students will be notified of their status in the program following the interview. This program begins during the Summer “C” session. Students must be able to meet technical standards and must pass a background check upon admission to the program.

### Admission Criteria

Students must:

a. Apply to the University of South Florida no later than December 1st of the year preceding application to the Athletic Training Education Program.

b. Meet the criteria for admission to the Athletic Training Program.

c. Complete the Foundations of Knowledge and Learning Core Curriculum Requirements of the University (36 credit hours).
   *See the Foundations of Knowledge and Learning Core Curriculum Requirements section of the catalog.

d. Complete the following statewide common prerequisites or an equivalent with at least a "C" average:  (25-26 credit hours).

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BSC X010/X010L or BSC X010C</td>
<td>4</td>
</tr>
<tr>
<td>PHY X053/X053L or PHY X053C or PHY X048/X048L or PHY X048C</td>
<td>4</td>
</tr>
</tbody>
</table>
f. Achieve a minimum cumulative GPA of 2.8.
g. Achieve a minimum prerequisite GPA of 2.8.
h. Complete and record 50 hours of observation with a certified athletic trainer. **Students must complete Blood Borne Pathogen training prior to completing observation hours.** Half of the hours can be done in a “traditional” athletic training setting (i.e., high school, college/university or professional sports venue). The remaining 25 hours can be done in a sports medicine clinic. Students also have the option to complete all 50 hours in a traditional setting. Students may not exceed 25 hours in a clinical setting (i.e. sports medicine clinic). All hours must be completed under a licensed athletic trainer. Documentation should be submitted with application.
i. Submit a completed Athletic Training Application by February 1st.
j. Students must be First Aid and CPR certified at the time of application and must maintain certification throughout the academic program. Both are separate certifications. To obtain a First Aid certification students can take the 2 credit hour USF course (HSC 2400 First Aid), or take courses through the American Red Cross, National Safety Council, YMCA or American Heart Association. To obtain a CPR certification w/AED for adults, infants, and children, students must take their courses through the American Red Cross, National Safety Council, YMCA or American Heart Association. USF does not offer a CPR course.
k. Meet the technical standards for admission or show potential for accomplished tasks with accommodation as determined by the Student Disability Office.
l. Participate in an interview by invitation on the designated date and time

**Required Professional Core Courses:**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>ATR 3132</td>
<td>Kinesiology and Pathomechanics</td>
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<tr>
<td>APK 3110</td>
<td>Exercise Physiology I</td>
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<td>ATR 3202</td>
<td>Measurement and Evaluation in Athletic Training</td>
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<td>ATR 3212C</td>
<td>Upper Extremity Assessment</td>
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<td>ATR 3213C</td>
<td>Lower Extremity Assessment</td>
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<td>ATR 3102C</td>
<td>Athletic Training Techniques</td>
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<td>ATR 3512</td>
<td>Athletic Training Admin &amp; Policy</td>
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<td>Clinical Experience in Athletic Training I</td>
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<td>ATR 3822L</td>
<td>Clinical Experience in Athletic Training II</td>
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<td>ATR 3534</td>
<td>Documentation in Athletic Training</td>
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<td>ATR 3123</td>
<td>Scientific Foundations of Athletic Training</td>
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<td>APK 4136</td>
<td>Exercise Prescription for Strength and Conditioning</td>
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<td>ATR 4432</td>
<td>General Medical Conditions in the Athlete</td>
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<td>ATR 4302C</td>
<td>Therapeutic Modalities</td>
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<td>ATR 4314C</td>
<td>Therapeutic Rehabilitation</td>
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<td>ATR 4832L</td>
<td>Clinical Experience in Athletic Training III</td>
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<td>ATR 4842L</td>
<td>Clinical Experience in Athletic Training IV</td>
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<td>ATR 4504</td>
<td>Seminar in Sports Medicine</td>
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</tr>
<tr>
<td>ATR 4223</td>
<td>Advanced Athletic Training</td>
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**Note:**

ATR 3812L, 3822L, 4832L and 4842L each require a minimum of 250 hours/semester of clinical education at various sites. Students should be aware that this is a considerable time commitment and should plan accordingly. Students may be expected to accumulate more than 250 hours/semester in some rotations due to the demands of the particular rotation.

Once admitted to the Athletic Training Program students must be available morning for class and afternoon and evening for clinical education daily (times vary depending on site). Students must also be available nights and weekends for clinical assignments. This program utilizes an alternative calendar. Clinical courses start prior to the start of main campus courses each semester. Clinical hours may not coincide with University holidays and breaks.

There will be additional costs (above tuition and fees) for courses and clinical rotations that may include, but are not limited to professional liability insurance, physical examination and immunizations, professional association fees, lab fees and uniforms. Transportation is needed for all off-campus clinical sites. Each student will have a minimum of one off-campus rotation.
Students are required to be fingerprinted and complete a background check prior to starting rotations at any public or private school. The athletic training student is responsible for this additional expense. Some clinical sites also require students to complete drug testing prior to starting clinical education.

Students proceed through the program in cohorts and are required to complete all the required courses each semester with a grade of “C” or better in order to progress to the next semester. Students who do not complete the requirements will be dismissed from the program. Students must maintain a 3.0 GPA in the core courses or will be placed on probation in the program. Two consecutive semesters on probation may result in the student being dismissed from the program. All students start the program (Summer C session) on probation and must meet the 3.0 GPA to continue in the program. Courses are only offered one time per year, so any dismissal will delay graduation. Re-application materials are reviewed and are based upon a student’s unwavering demonstration of modification of circumstances that previously lead to dismissal from the program.

Orthopedics and Sports Medicine Faculty
The program is accredited by the Commission on Collegiate Nursing Education, One DuPont Circle, NW Suite 530, Washington, DC, 20036, (202) 887-6791, and approved by the Florida State Board of Nursing. Graduates of the Upper Division and Second Degree sequences are eligible to sit for the National Council Licensure Examination (NCLEX) Registered Nurse qualifying exam. Graduates may apply for licensure in Florida or other states. Successful undergraduates have the educational background necessary for graduate study in nursing.

The College of Nursing encourages applications from qualified applicants of both sexes and from all cultural, racial, religious, ethnic, and age groups. The College of Nursing uses selective criteria for the admission of students. Admissions are determined on the basis of availability of sufficient qualified faculty, laboratory and classroom facilities, and clinical teaching resources. Final admission to all nursing programs is conditional upon passing a Level 2 background check. The background check must be completed at the applicant's expense in accordance with the College of Nursing policy and procedures on background checks and drug screening.

The College of Nursing is a limited access program. Any student who applies to the undergraduate program at the College of Nursing is initially coded as “pre-nursing” prior to official acceptance to the College of Nursing.

1. The C.A.R.E. (Creating Access to RN Education) program is a special program designed for the first time in college (FTIC) students. Requirements for consideration are a minimum 3.6 cumulative weighted high school grade point average and a combined score of at least 1200 on the SAT or a composite score of at least 28 on the ACT. To maintain C.A.R.E. status pre-nursing students must maintain a 3.5 GPA and a B average in all state mandated courses.

2. The Upper Division (NUR) sequence is for students who have completed all nursing pre-requisite courses and have a minimum GPA of 3.20. This is a full-time limited access program, as mandated by the state, and is structured sequentially. Admission is competitive.

3. The Second Bachelor’s Degree (SBN) sequence is for students who have a baccalaureate degree in another field and a minimum undergraduate GPA of 3.00. Students with an awarded bachelor’s degree and who have completed all the nursing pre-requisite courses may be considered for admission into the Second Bachelor’s Degree sequence; upon completion, students will earn a second bachelor's degree. This is a full-time limited access program, as mandated by the state, and is structured sequentially. Admission is competitive.

4. The RN to BS (NRN) sequence is for students currently licensed to practice as a Registered Nurse. The RN to BS option allows an RN with a diploma or an associate's degree in nursing from a regionally accredited school to earn a Bachelor of Science degree with a major in nursing.

5. The RN to MS sequence is for students currently licensed to practice as a Registered Nurse. The RN to MS option allows an RN with an Associate’s degree in nursing from a regionally accredited school to earn a Master of Science degree with selected specialty concentrations in Nursing. Upon completion of the RN to MS program, a student who has fulfilled the University’s foreign language requirement may also apply for the awarding of the Bachelor of Science degree with a major in Nursing. For more information regarding admission to the RN-MS program please see the Graduate School catalog.

Nursing Advising

The College of Nursing Student Affairs office offers a comprehensive service for all College of Nursing students. These services include information sessions, registration, academic advising, graduation certification, and other services. The student is ultimately responsible for meeting all graduation requirements. Additionally, information sessions and general information are available for prospective students. The goals of the College of Nursing Student Affairs office are to:

- Facilitate the application and admission process for students
- Assist students as they develop their educational plans in conjunction with faculty
- Guide students to select appropriate courses
- Help students interpret institutional requirements
- Advise students to facilitate progression in their course of study
- Facilitate graduation process for students

Location and Phone Number: The College of Nursing (MDN) building is located near Bruce B. Downs Blvd. and west Holly Drive on the northwest corner of campus. The mailing address is: 12901 Bruce B. Downs Blvd, MDC 22, Tampa, FL 33612-4766. The College telephone number is: (813) 974-2191.

Student Affairs offices: To schedule an advising appointment call the College of Nursing’s Office of Student Affairs at (813) 974-2191 or consult the website at http://health.usf.edu/nocms/nursing. Advising appointments may also be scheduled using E-Scheduler at http://usfweb3.usf.edu/appointments/StudentSignon.asp

Office Hours: 8 a.m. - 5 p.m., Monday through Friday.
Prerequisite Coursework for Nursing Students

Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution:

The University’s Foundations of Knowledge and Learning Core Curriculum (General Education) requirements and College of Nursing’s prerequisite/support courses may be completed through the A.A. degree from a Florida College System institution. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The A.A. degree satisfies admission requirements only if courses are carefully selected and include the required major prerequisite/support courses.

The College of Nursing requires certain courses within the Foundations of Knowledge and Learning Core Curriculum (General Education) requirement for the natural, social and behavioral sciences, and mathematics. Students must complete the prerequisite courses listed below prior to being admitted to the upper-division sequence except those students in the C.A.R.E. program. All prerequisite courses must be completed with a grade of “C” or higher.

All courses not approved by the Florida State Course Numbering System (includes all Florida public colleges, universities, and College System institutions) used to satisfy these prerequisite requirements will be evaluated individually on the basis of content and will require a catalog course description and a copy of the syllabus for assessment.

- BSC X085C Human Anatomy & Physiology I or any Human Anatomy & Physiology I course, 4 semester hours
- BSC X086C Human Anatomy & Physiology II or any Human Anatomy & Physiology II course, 4 semester hours
- CHM, BSC, PHY, PCB, BCH XXXX Any Chemistry, Biology, Physics, or Biochemistry course, 3 semester hours
- DEP X004 Human Growth & Development or any Human Growth & Development course, 3 semester hours
- HUN X201 Human Nutrition or any Human Nutrition course OR NUR 1192, 3 semester hours
- MCB X010C Microbiology or Any Microbiology course, 4 semester hours
- PSY, SYG, or SOP XXXX Any Psychology, Sociology, or Social Psychology course, 3 semester hours
- STA X014 Statistics or any Statistics course, 3 semester hours

Foundations of Knowledge and Learning (FKL) Requirements:

The College of Nursing requires certain courses within the University’s FKL requirements for the natural, social and behavioral sciences, and mathematics. Students should contact their academic advisor for the list of FKL courses approved to meet the College of Nursing requirements. Courses that meet the state mandated common prerequisites may also meet the USF FKL requirements. Students with a Florida community college A.A. degree (other than in nursing) will be considered to have met all of the USF General Education requirements. A grade of ‘C-’ or better is required in the FKL courses:

- English Composition 6
- Fine Arts 3
- Human and Cultural Diversity in a Global Context 3
- Humanities 6
- Mathematics OR 3 Mathematics AND 3 Quantitative Reasoning 6
- Natural Sciences (Life Science) 3
- Natural Sciences (Physical Science) 3
- Social and Behavioral Sciences 6

Six credits of the above coursework must be completed in Human and Historical Context and Process courses.

• Upper Division Sequence (NUR) (CIP = 51.3801)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Admission Requirements

- Admission to the University of South Florida
- Completed application to the College of Nursing prior to the published deadline for the intended term of entry
- Completion of all nursing pre-requisites course by published application deadline for the intended term of entry
- Minimum 3.20 cumulative GPA on all undergraduate work. Required pre-requisite course grades may be weighted
- Completion of the University’s foreign language entrance requirement
- Submission of a personal statement describing the reason for choosing nursing as a career, plans for academic success, and how leadership or volunteer experiences contribute to the profession of nursing (See College of Nursing website for details).
- No undergraduate nursing courses transferred in from any institution.

Prerequisite Requirements

The state-mandated nursing common pre-requisites are required to be completed before the published application
COLLEGE OF NURSING

UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG

Additional Requirements
The Foundations of Knowledge and Learning (FKL) requirements must be completed prior to admission into the Upper Division sequence and must be completed with a ‘C-’ or better.

Upper Division Course of Study

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3125</td>
<td>Pathophysiology for Nursing Practice</td>
<td>4</td>
</tr>
<tr>
<td>NUR 3145</td>
<td>Pharmacology in Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NUR 3026</td>
<td>Fundamentals of Nursing Practice &amp; Foundations for Clinical Judgment</td>
<td>4</td>
</tr>
<tr>
<td>NUR 3026L</td>
<td>Nursing Fundamentals Clinical</td>
<td>4</td>
</tr>
<tr>
<td>NUR 3066</td>
<td>Physical Examination &amp; Assessment</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3826</td>
<td>Ethical/Legal Aspects of Nursing and Health Care</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3535</td>
<td>Psychiatric/Mental Health Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NUR 3535L</td>
<td>Psychiatric/Mental Health Nursing Clinical</td>
<td>3</td>
</tr>
<tr>
<td>NUR 3215</td>
<td>Medical Surgical Nursing I</td>
<td>3</td>
</tr>
<tr>
<td>NUR 3215L</td>
<td>Medical Surgical Nursing Clinical I</td>
<td>4</td>
</tr>
<tr>
<td>NUR 4216</td>
<td>Medical Surgical Nursing II</td>
<td>4</td>
</tr>
<tr>
<td>NUR 4216L</td>
<td>Medical Surgical Nursing Clinical II</td>
<td>5</td>
</tr>
<tr>
<td>NUR 4169C</td>
<td>Evidence-Based Practice for Baccalaureate Prepared Nurse</td>
<td>3</td>
</tr>
<tr>
<td>NUR 4827C</td>
<td>Leadership &amp; Management in Professional Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NUR 4636</td>
<td>Community/Public Health: Population – Focused Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NUR 4636L</td>
<td>Community/Public Health Nursing Clinical</td>
<td>3</td>
</tr>
<tr>
<td>NUR 4355</td>
<td>Child &amp; Adolescent Health Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NUR 4455</td>
<td>Women’s Health Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4467L</td>
<td>Maternal &amp; Pediatric Clinical Nursing Care Clinical</td>
<td>4</td>
</tr>
<tr>
<td>NUR 4948L</td>
<td>Preceptorship</td>
<td>6</td>
</tr>
</tbody>
</table>

Total: 68

• Second Bachelor’s Degree Sequence (SBN) (CIP = 51.3801)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Admission Requirements

• Admission to the University of South Florida
• Application to the College of Nursing prior to the published deadline for the intended term of entry
• Completion of all nursing pre-requisite courses by the published deadline for the intended term of entry
• Completion of first bachelor’s degree, from a regionally accredited institution, by the published application deadline for the intended term of entry
• Minimum 3.0 cumulative GPA on all undergraduate work
• Submission of a personal statement describing the reason for choosing nursing as a career, plans for academic success, and how leadership or volunteer experiences contribute to the profession of nursing (See College of Nursing website for details).
• No undergraduate nursing courses transferred in from any institution.

Prerequisite Requirements
The state-mandated nursing common pre-requisites are required to be completed before the published application deadline for the intended term of entry. A grade of ‘C’ or better is required:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC X085C</td>
<td>Human Anatomy &amp; Physiology I or any Human Anatomy &amp; Physiology I course</td>
<td>4 semester hours</td>
</tr>
<tr>
<td>BSC X086C</td>
<td>Human Anatomy &amp; Physiology II or any Human Anatomy &amp; Physiology II course</td>
<td>4 semester hours</td>
</tr>
<tr>
<td>CHM, BSC, PHY, PCB, BCH XXXX</td>
<td>Any Chemistry, Biology, Physics, or Biochemistry course</td>
<td>3 semester hours</td>
</tr>
<tr>
<td>DEP X004</td>
<td>Human Growth &amp; Development or any Human Growth &amp; Development course</td>
<td>3 semester hours</td>
</tr>
<tr>
<td>HUN X201</td>
<td>Human Nutrition or any Human Nutrition course OR NUR 1192</td>
<td>3 semester hours</td>
</tr>
<tr>
<td>MCB X010C</td>
<td>Microbiology or Any Microbiology course</td>
<td>4 semester hours</td>
</tr>
<tr>
<td>PSY, SYG, or SOP XXXX</td>
<td>Any Psychology, Sociology, or Social Psychology course</td>
<td>3 semester hours</td>
</tr>
<tr>
<td>STA X014</td>
<td>Statistics or any Statistics course</td>
<td>3 semester hours</td>
</tr>
</tbody>
</table>
Second Bachelor's Degree Course of Study

- NUR 3125  Pathophysiology for Nursing Practice  4
- NUR 3145  Pharmacology in Nursing Practice  3
- NUR 3026  Fundamentals of Nursing Practice & Foundations for Clinical Judgment  4
- NUR 3026L  Nursing Fundamentals Clinical  4
- NUR 3066  Physical Exam & Assessment  2
- NUR 3826  Ethical Legal Aspects of Nursing & Health Care  2
- NUR 4169C  Evidence-Based Practice for Baccalaureate Prepared Nurse  3
- NUR 3535  Psychiatric/Mental Health Nursing  3
- NUR 3535L  Psych Clinical  3
- NUR 4636  Community/Public Health: Population - Focused Nursing  3
- NUR 4636L  Community/Public Health Nursing Clinical  3
- NUR 3215  Medical Surgical Nursing I  3
- NUR 3215L  Medical Surgical Nursing Clinical I  4
- NUR 4216  Medical Surgical Nursing II  4
- NUR 4216L  Medical Surgical Nursing II Clinical  5
- NUR 4355  Child & Adolescent Health Nursing  3
- NUR 4455  Women's Health Nursing  2
- NUR 4467L  Maternal & Pediatric Nursing Care Clinical  4
- NUR 4948L  Preceptorship  6
- NUR 4827C  Leadership & Management in Prof Nursing Practice  3

Total: 68

Note: Undergraduate second bachelor's degree pre-licensure students who receive a grade below a "C" or "S" in any required nursing course will not be permitted to continue in the second bachelor's degree sequence. If allowed to continue in the program, the student must move to the upper division sequence, providing space and appropriate clinical placement are available.

**RN to Bachelors Sequence (NRN) (CIP = 51.3801)**

**TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

**Admissions Requirements**
- Admission to the University of South Florida
- Application to the College of Nursing prior to the published deadline for the intended term of entry
- Current RN licensure and either an Associate of Science in Nursing degree from a regionally accredited institution, or diploma in Nursing
- Minimum 2.50 cumulative GPA on all undergraduate coursework

**Prerequisite Requirements**
The state-mandated nursing common prerequisites are required to be completed. These courses can be completed while in the RN to BS program. A grade of 'C' or better is required:
- BSC X085C Human Anatomy & Physiology I or any Human Anatomy & Physiology I course, 4 semester hours
- BSC X086C Human Anatomy & Physiology II or any Human Anatomy & Physiology II course, 4 semester hours
- CHM, BSC, PHY, PCB, BCH XXXX Any Chemistry, Biology, Physics, or Biochemistry course 3 semester hours
- HUN X201 Human Nutrition or any Human Nutrition course OR NUR 1192, 3 semester hours
- MCB X010C Microbiology or Any Microbiology course, 4 semester hours
- PSY, SYG, or SOP XXXX Any Psychology, Sociology, or Social Psychology course, 3 semester hours

**Additional Requirements**
- The Foundations of Knowledge and Learning (FKL) requirements must be completed. A grade of 'C-' or better is required:
  - English Composition 6
  - Mathematics* OR 3 Mathematics AND 3 Quantitative Reasoning 6
    *College Algebra or Finite Math preferred and STA X014 Statistics recommended courses
  - Natural Sciences (Life Science) 3
- Natural Sciences (Physical Science) 3
- Social and Behavioral Sciences 6
- Fine Arts 3
- Human and Cultural Diversity in a Global Context 3
- Humanities 6
- Foreign Language Entrance Requirement 8

• Completion of all other University Baccalaureate degree requirements
• Additional coursework may be required to meet the USF graduation credit hour requirement.

RN to BS Course of Study:
A letter grade of “C” or better is required in all Nursing (NUR) courses

Core Courses:
NUR 3805  Educational Transitions for Registered Nurses   2
NUR 3078  Information Technology Skills for Nurses     1
NUR 4895C  Educational Role of the Nurse in Healthcare   3
NUR 4828C  Foundations of Nursing Healthcare Leadership & Management  3
NUR 4169C  Evidence-Based Practice for Baccalaureate Prepared Nurse  3
NUR 4634C  Population Health
core Courses Total Credit Hours: 15

Cluster Courses
Students select one of three clusters during the second semester. The three clusters are: Clinical Practice; Education; Leadership. Students must complete at least two courses from the selected cluster. Remaining credits may be selected from any cluster. Please contact and academic advisor in Nursing for required cluster courses.

Core and Cluster Courses Total Credit Hours: 30

Nursing Faculty
As we enter the new millennium, public health looms large at the forefront of the world’s concerns. Population pressures, environmental problems, maternal and child healthcare, disaster management, new emerging diseases, behavioral challenges, healthcare management and cost containment demand solutions from the public health professional. To meet these challenges, the mission of the College of Public Health is to promote public health through research, education and services. The USF College of Public Health is one of 49 public health colleges in the nation and is fully accredited by the Council on Education for Public Health. The College has five departments: Community and Family Health, Epidemiology and Biostatistics, Environmental and Occupational Health, Health Policy and Management, and Global Health.

The purpose of the undergraduate curriculum offered in the College is to promote student-centered learning so the students may articulate the role of public health in disease prevention and health promotion locally, statewide, nationally, and globally. Moreover, students will be able to analyze public health issues related to a particular concentration area, become knowledgeable about dynamic career paths in public health and develop an understanding of public health that serves as a foundation for the pursuit of graduate public health degrees.

Undergraduate students seeking careers in public health are invited to refer to the College website http://publichealth.usf.edu/undergrad or contact the College advisors: Annette Strzelecki via email at amanson@health.usf.edu or Kenneth Griffin at kgriffi3@health.usf.edu.

Introduction to Public Health and Survey of Human Disease (or their equivalent) are prerequisites for several concentrations prior to graduate study in public health. Undergraduate College courses are offered through traditional classroom methods and online.

The USF College of Public Health offers a Bachelor of Science in Public Health, Undergraduate 3+ Master's in Public Health and minors in General Public Health; Environmental Health; Community Engaged Homeland Security & Emergency Management

Public Health General Guidelines

Admission Standards

Admission to the College of Public Health is open to students who have been accepted into the University of South Florida and have declared a major in public health. Undergraduate students must submit a formal application for admission into the College of Public Health during orientation and advising for new students.

Graduation Requirements

The College of Public Health offers one undergraduate degree: Bachelor of Science.

1. Complete at least 120 accepted semester hours with a minimum USF cumulative GPA and overall GPA of 2.0. (Important! All grades including “D”s and “F”s are used to calculate GPAs for students in the College of Public Health.)
2. Maintain a major GPA of 2.0 in USF coursework.
3. Complete the Foreign Language Entrance Requirement.
4. Students must satisfy BOG Regulation 6.017 (6A Gordon Rule) concerning computation and communication courses. Transfer students who enter the University of South Florida with 60 or more semester hours from a regionally accredited institution are considered to have met the Gordon Rule requirement.
5. Complete Core Curriculum Requirements of 36 hours credit:
   - Six (6) hours credit in English Composition
   - Six (6) hours credit in Quantitative Methods
   - Six (6) hours credit in Natural Sciences (3 credit hours in Life Science and 3 credit hours in Physical Science)
   - Six (6) hours credit in Social Sciences
   - Six (6) hours credit in Humanities
   - Three (3) hours credit in Fine Arts
   - Three (3) hours credit in Human and Cultural Diversity and Global Context
   - Exit Requirements of 6 hours credit
     - Three (3) hours credit in a Capstone course
     - Three (3) hours credit in a Writing Intensive course
6. None of the 20 credits may be taken in the student’s major as S/U unless S/U is the only grading option.
7. Coursework fulfilling the Gordon Rule and General Education requirements may not be taken as S/U.
8. The Audit option is available only during the first 5 days of classes.
9. Complete at least 9 semester hours at a Florida public university in the Florida State University System during summer terms if entering USF with fewer than 60 semester hours.
10. Grades of D+ or lower are not acceptable in the major.
11. Complete all major course requirements.
12. Complete a minimum of 48 hours of upper-level courses (numbered 3000 or above).
13. Thirty (30) of the last 60 semester hours must be completed at USF to fulfill the residency requirement.
PUBLIC HEALTH (PUB) (CIP=51.2201)

Total Program Hours = 120 credit hours.

USF offers the first Bachelor’s in Public Health housed in its accredited College of Public Health in Florida. The Bachelor of Science in Public Health provides the student-centered courses required for entry-level public health jobs found in government agencies, health corporations, community non-profit organizations and healthcare facilities.

Undergraduate public health students are encouraged to participate in research ranging from laboratory studies to participatory community-based research with a focus on the culturally competent aspects of healthy community development including the social, economic, educational components. This research provides entry-level student employment opportunities on a variety of specific public health projects while learning basic research skills including data collection, data entry and technical report writing. Under faculty leadership, students are mentored to achieve personal goals whether they choose employment after their bachelor’s degree or admission into a graduate or professional program.

The B.S. in Public Health is a generalist degree with no concentrations, tracks or specializations.

Students completing the B.S. in Public Health will be able to:

1. Identify and articulate the core functions of public health.
   a. Explain the basic principles of epidemiology.
   b. Assess social and behavioral interventions to improve health of populations.
   c. Identify the impact of the environment and communicable diseases on health.
   d. Explain the role that public health plays in disaster prevention and management and evaluate public policy issues with respect to access, quality and cost when understanding health disparities within vulnerable populations.

2. Exhibit critical thinking and analytical abilities, including the capacities to engage in inductive and deductive thinking and quantitative reason, and to construct sound arguments.
   a. Identify topics pertaining to public health research.
   b. Generate research questions, analyze and present data, and interpret and discuss findings.
   c. Demonstrate awareness about current public health topics including an analysis of the societal attitudes that generate differences on current public health topics.

3. Communicate using effective oral skills.
   a. Demonstrate an ability to contribute effectively to group discussions and presentations.
   b. Apply effective public speaking skills during classroom presentations.

4. Develop effective written presentations.
   a. Demonstrate the use of information literacy skills such as locating and evaluating pertinent public health information.
   b. Demonstrate the ability to use library resources and scientific databases.
   c. Exhibit proper referencing secondary materials in APA format.

Bachelor of Science in Public Health Curriculum

Lower Level:  60 Hours

Core Curriculum:  36 hours
Lower Level Electives:  24 hours

Foundations of Knowledge & Learning Core Curriculum (General Education): (36 hours)

6 English Compositions
3 Fine Arts
3 Human and Cultural Diversity in a Global Context
6 Humanities
6 Mathematics OR 3 Mathematics AND 3 Quantitative Reasoning
3 Natural Science (Life Science)
3 Natural Science (Physical Science)
6 Social and Behavioral Sciences

Lower Level Electives: (24 hours)

(Suggested Lower Level Public Health Courses)
HSC 2017  Careers in Public Health
HSC 2100  Contemporary Health Science
HSC 2130  Sex, Health and Decision Making
HSC 2933  Selected Topics in Public Health

Upper Level:  60 Hours

Public Health Core:  33 hours
Public Health Electives:  12 hours
Exit Requirements:  6 hours
Upper Level Electives:  9 hours

Public Health Core Courses (33 hours)
- PHC 4101 Introduction to Public Health
- HSC 4551 Survey of Human Disease
- PHC 4030 Introduction to Epidemiology
- PHC 4069 Biostatistics in Society
- PHC 3302 Introduction to Environmental & Occupational Health
- HSC 4211 Health, Behavior and Society
- HSC 4537 Medical Terminology
- HSC 4630 Understanding U.S. Health Care
- HSC 4624 Foundations of Global Health
- PHC 4942 Public Health Seminar (Two 3-credit hour courses)

Public Health Electives (Choose 4 courses = 12 hours)
- HSC 3541 Human Structure and Function
- HSC 4172 Women’s Health: A Public Health Perspective
- HSC 4580 Foundations of Food Safety
- HSC 4504 Foundations of Public Health Immunology
- HUN 3272 Sports Nutrition
- HUN 3296 Nutrition and Disease
- HSC 4579 Foundation of Maternal & Child Health
- PHC 4031 Emerging Infectious Diseases
- PHC 4542 Stress, Health and College Life
- PHC 4406 Pop Culture, Vices and Epidemiology
- PHC 4931 Health Care Ethics
- PHC 3320 Environmental Health Science
- PHC 3721 Research Methods in Environmental and Occupational Health
- HSC 4213 Environmental and Occupational Risk Analysis
- HSC 4430 Occupational Health and Safety
- PHC 4188 Public Health Emergencies in Large Populations
- PHC 4234 Public and Private Continuity Planning for Emergencies
- PHC 4241 Psychology of Fear and Mental Health Issues Related to Disasters
- PHC 4375 Community Participation in Homeland Security
- PHC 4376 Disaster by Design: Exercise Development for Homeland Security Professionals
- HSC 4933 Special Topics in Public Health

Exit Requirements:  6 hours
- 3 Capstone: HSC 4631 Critical Issues in Public Health
- 3 Writing Intensive: PHC 4720 Scholarly & Professional Writing in Public Health

Upper Level Electives:  9 hours
- Please contact the Undergraduate Advisor for possible elective course.
- It is required that every student complete at least 9 semester hours at a Florida public university in the Florida State University System during summer terms if entering USF with fewer than 60 semester hours.

Undergraduate (3+2) Master’s Degree in Public Health
Undergraduate students who are seeking a career in public health can select to major in a broad range of Bachelor degree programs including engineering, business, social sciences, biological sciences, nursing, social work, pre-medicine, other allied health specialties or interdisciplinary degrees in order to be prepared for graduate work in the College. Pre-medical students seeking admission to medical school may want to consider completing a Master’s degree in public health prior to application or admission to medical schools or as an alternative to clinical degrees. The College offers several programs that allow students to complete their undergraduate and Master’s degrees in an accelerated format including the Undergraduate Accelerated Entry Program for Master’s Degree in Public Health Education, Fast Track for Honors BMS, ISS and INS Students, and (4 + 1) Environmental and Occupational Health.

Undergraduate (3+2) Master’s Degree in Public Health Education
The Department of Community and Family Health in the College of Public Health offers an accelerated entry program that enables qualified undergraduate students to enter the Master of Public Health (MPH) degree program with a concentration in Public Health Education. Applicants must have attained a grade point average of at least 3.0 on a four-point scale, or received a minimum Verbal GRE score of 500 and a minimum Quantitative GRE score of 550. Applicants must have completed 90 undergraduate semester hours in a program related to the field of public health such as social sciences, natural sciences, behavioral sciences, pre-medicine, pre-dental, nursing, or education. Interested students are encouraged to contact the advisor upon completing 60 undergraduate semester hours. Contact:
**Fast Track for Honors BMS, ISS and INS Students**

This program provides opportunities for Honor students to enroll in a Masters in Public Health program at the beginning of their senior year. Eligible seniors complete up to 20 graduate credits in public health that count toward the bachelor’s degree as well as an Master of Public (MPH) or a Master of Science in Public Health (MSPH). The MPH is considered a professional degree and is appropriate for student wishing to be prepared to work in a public health career. The MSPH is considered a research oriented degree.

**Admission and Application Process for Enrollment**

Students are encouraged to apply early and applications will be accepted starting in the fall of the student’s junior year. Applicants must complete the Accelerated Graduate Program Application form and submit the completed form to Graduate Admissions. The form is available at: [http://www.grad.usf.edu/inc/linked-files/Accelerated_Program_Application.pdf](http://www.grad.usf.edu/inc/linked-files/Accelerated_Program_Application.pdf). Admission is for fall semester and applications must be received by July 1 for guaranteed consideration. Applications received after July 1 will be processed for fall admission although there is no guarantee that processing will be completed in time. Spring and summer admissions will be considered on an individual basis.

Applicants are also required to complete the SOPHAS application ([see http://health.usf.edu/publichealth/degreereqs.html](http://health.usf.edu/publichealth/degreereqs.html)) for application procedures. While SOPHAS is required, the USF Graduate School application does not need to be completed if the Accelerated Program Application is used.

**Admission Requirements**

- Minimum Verbal score of 150 (450 on GRE tests taken prior to Fall 2011) and minimum quantitative score of 146 (550 on GRE tests taken prior to Fall 2011) on the Graduate Record Exam (GRE) or a mean MCAT of 8. (Helpful Hint: Take the General GRE exam, not a specialized one.)
- Good standing in the Honors program.
- Senior status.
- Two letters of recommendation from undergraduate faculty.
- One letter from the Honors advisor noting GPA of 3.2 or better.
- Desire for a public health career as documented in a one page goal statement.
- Approval by appropriate department admission committee.
- Approval by the College and Graduate School.

**Minors**

**University Requirements:**

Each academic minor must conform to the following University requirements:

1. A minor is a minimum of 12 semester hours; at least 8 semester hours of credit used to satisfy the requirements must be from USF courses; at least 50 percent of the required coursework must be earned from the institution awarding the minor.
2. A student may not have a major and a minor in the same program. Department courses used in the major may not apply to the minor.
3. USF coursework for a minor must have a minimum GPA of at least 2.0.
4. Only an undergraduate, degree-seeking student at USF is eligible for a minor.
5. A minor can be applied for and received only in conjunction with applying for and receiving a baccalaureate degree, except for students who have already received a baccalaureate degree from USF who may earn certification of a minor by taking additional undergraduate coursework at the University and applying for the minor as a degree-seeking student.

**Declaring a Minor**

Make sure you have completed all required and elective courses for the minor. You will declare the minor on your Bachelor’s Degree Application when you are preparing to graduate. (Check with your department and the Registrar’s Office website on semester deadlines for the application) If you declare the minor, it will be displayed on your USF official transcript. You will not receive any tangible documentation or certificate from the College of Public Health for completion of the minor.
Public Health Minor (GPH)

The goal of the General Public Health Minor is to develop in a broad range of students an understanding and appreciation of the field of Public Health.

Upon completion of the General Public Health Minor coursework, a student will be able to:

1. Articulate the role of public health in disease prevention and health promotion at the local, state, national and global level.
2. Describe public health concepts and issues.
3. Discuss and analyze current public health issues.
4. Describe career paths in public health.
5. Develop an understanding of public health that can serve as a foundation for the pursuit of graduate public health degrees.

The General Public Health Minor consists of 18 credit hours. It is recommended that students follow the sequence of courses listed below. These courses will give students a broad overview of public health concepts. Departmental courses can then be selected from a wide range of College of Public Health courses in consultation with the undergraduate academic advisors. Students are encouraged to select departmental courses that provide a cohesive learning experience based on their individual interests and goals, assisted by academic advisors in the student’s major and College of Public Health.

Required Courses (9 credit hours):
- PHC 4101 Introduction to Public Health
- HSC 4551 Survey of Human Disease
- PHC 4030 Introduction to Epidemiology

Electives (9 credit hours):
- HSC 2100 Contemporary Health Science
- HSC 2130 Sex, Health and Decision Making
- PHC 3302 Introduction to Environmental & Occupational Health
- HSC 3541 Human Structure and Function
- PHC 4069 Biostatistics in Society
- HSC 4172 Women's Health: A Public Health Perspective
- HSC 4211 Health, Behavior and Society
- PHC 4406 Pop Culture, Vices and Epidemiology
- HSC 4504 Foundations of Public Health Immunology
- HSC 4537 Medical Terminology
- HSC 4580 Foundations of Food Safety
- HSC 4579 Foundations of Maternal and Child Health
- HSC 4624 Foundations of Global Health
- PHC 4031 Emerging Infectious Diseases
- PHC 4931 Health Care Ethics
- PHC 4032 Environmental Health Science
- HSC 4213 Environmental and Occupational Risk Analysis
- HSC 4430 Occupational Health and Safety
- PHC 4188 Public Health Emergencies in Large Populations
- PHC 4234 Public and Private Continuity Planning for Emergencies
- PHC 4241 Psychology of Fear and Mental Health Issues Related to Disasters
- PHC 4375 Community Participation in Homeland Security
- PHC 4376 Disaster by Design: Exercise Development for Homeland Security Professionals
- HSC 4933 Special Topics in Public Health*

*Please see an academic advisor for selection of special topics courses.

For any additional information about the College of Public Health Minor, please contact: Annette Strzelecki; amanson@health.usf.edu, (813) 974-9135.

Environmental Health Minor (EVH)

The Environmental Health (EH) Minor is offered by the Department of Environmental and Occupational Health within the College of Public Health. The EH Minor provides students with the broad range of courses necessary to pursue an advanced degree in the field of Environmental and Occupational Health and Safety or to seek entry-level employment in a related field. The EH Minor is preparatory for careers in environmental science, industrial hygiene, toxicology, risk assessment, and related health sciences careers. The minor provides an applied science specialization to complement a basic sciences, life sciences, or health sciences major.

Upon completion of the Environmental Health Minor coursework, a student will be able to:
### Environmental Health Minor

The minor in Environmental Health consists of a minimum of 15 credit hours with a minimum grade of C- for all required courses and a minimum 2.00 average in the 15 credits that are required for obtaining this minor. No courses may be applied toward both a major and a minor in Public Health.

It is recommended that students follow the sequence of courses listed below. These courses will give students a broad overview of environmental and occupational health concepts. No additional departmental courses are required for the completion of the environmental and occupational health minor.

**Required Courses (15 credit hours):**
- HSC 3541 Human Structure and Function
- PHC 3320 Environmental Health Science
- PHC 3721 Research Methods in Environmental and Occupational Health
- HSC 4213 Environmental and Occupational Risk Analysis
- HSC 4430 Occupational Health and Safety

For additional information about the minor, please contact: Annette Strzelecki; amanson@health.usf.edu, (813) 974-9135 or Kenneth Griffin at kgriffi3@health.usf.edu or 813-974-9372.

### Community Engaged Homeland Security & Emergency Management Minor (HSE)

The Community Engaged Homeland Security and Emergency Management Minor will provide a broad foundation of Homeland Security and Emergency Management for individual interested in pursuit of a career in local, state or national government, military or in the global arena.

The minor in consists of a minimum of 15 credit hours with a minimum grade of C- for all required courses and a minimum 2.00 average in the 15 credits that are required for obtaining this minor. No courses can be applied toward both a major and a minor in Public Health.

**Required Courses (15 credit hours):**
- PHC 4188 Public Health Emergencies in Large Populations
- PHC 4234 Public and Private Continuity Planning for Emergencies
- PHC 4241 Psychology of Fear and Mental Health Issues Related to Disasters
- PHC 4375 Community Participation in Homeland Security
- PHC 4376 Disaster by Design: Exercise Development for Homeland Security Professionals

It is highly recommended that students meet with an advisor in the College of Public Health early to verify coursework for the minor.

### Public Health Undergraduate Certificate

The goal of the Public Health certificate is to develop in a broad range of students an understanding and appreciation of the field of Public Health.

Upon completion of the Public Health Certificate coursework, a student will be able to:

1. Articulate the role of public health in disease prevention and health promotion at the local, state, national and global level.
2. Describe public health functions and concepts.
3. Discuss and analyze current public health issues.
4. Describe career paths in public health.
5. Develop an understanding of public health that can serve as a foundation for the pursuit of graduate public health degrees.

It is recommended that students follow the sequence of courses listed below. These courses will give students a broad overview of public health concepts. Departmental courses may then be selected from a wide range of College of Public Health courses in consultation with the undergraduate academic advisors. Students are encouraged to select departmental courses that provide a cohesive learning experience based on their individual interests and goals and may involve selecting courses from a department or emphasis area, assisted by academic advisors in the student’s major and College of Public Health.

The Public Health Undergraduate Certificate consists of 18 credit hours

**Required Courses (9 credit hours):**
- PHC 4101 Introduction to Public Health
- HSC 4551 Survey of Human Diseases
- PHC 4030 Introduction to Epidemiology

**Elective Departmental Courses (9 credit hours):**
HSC 2100 Contemporary Health Science
HSC 2130 Sex, Health and Decision-Making
PHC 3002 Introduction to Environmental & Occupational Health
HSC 3541 Human Structure and Function
PHC 4069 Biostatistics in Society
HSC 4172 Women’s Health: A Public Health Perspective
HSC 4211 Health, Behavior and Society
PHC 4406 Pop Culture, Vices and Epidemiology
HSC 4504 Foundations of Public Health Immunology
HSC 4537 Medical Terminology
HSC 4573 Foundations of Food Safety
HSC 4579 Foundations of Maternal and Child Health
HSC 4624 Foundations of Global Health
HSC 4631 Critical Issues in Public Health
PHC 4720 Foundations of Professional Writing in Public Health
PHC 4931 Health Care Ethics
HSC 4933 Special Topics in Public Health**
PHC 4031 Emerging Infectious Diseases
**Please see an academic advisor for selection of Special Topics courses.
Other Special Topics subjects may be offered depending upon student demand and instructor availability.

It is highly recommended that students meet with an advisor in the College of Public Health early to verify coursework for the certificate.

The undergraduate certificate will provide a broad foundation of Homeland Security and Emergency Management for individual interested in pursuit of a career in local, state or national government, military or in the global arena.
The undergraduate certificate consist of 15 credit hours
PHC 4188 Public Health Emergencies in Large Population
PHC 4234 Public and Private Sector Continuity Planning for Emergencies
PHC 4241 Psychology of Fear and Mental Health Issues Related to Disasters
PHC 4375 Community Participation in Homeland Security/Disaster Preparedness
PHC 4376 Disaster by Design: Exercise Development for Homeland Security Professionals
It is highly recommended that you meet with an advisor in the College of Public Health early to verify coursework for the certificate.

Application Process for Enrollment in Undergraduate Certificate Programs
Enroll as a non-degree seeking student. For information see the non-degree enrollment procedures at
http://health.usf.edu/publichealth/academicaffairs/registration/nondegreeseeking.html. You may apply and/or enroll any semester as a certificate-seeking student.

Public Health Advising
Potential applicants should prepare at the undergraduate level for careers in public health. Undergraduate public health courses present a broad range of public health issues and are offered on campus and on-line. These undergraduate courses may be selected as part of the student’s approved planned program or as electives to prepare students for graduate classes.

Advising Office
Physical Address: 13201 Bruce B. Down Blvd, Tampa, FL 33612-3805; Mail point - MDC 56
Phone: 813-974-9372 (Annette Strzelecki), (813) 974-9135 (Kenneth Griffin) or toll free 1-888-USF-COPH.
Office Hours: 8am–5pm, Monday through Friday
Contact Email: Annette Strzelecki (amanson@health.usf.edu) or Kenneth Griffin (kgriffi3@health.usf.edu)
Web Address: http://health.usf.edu/publichealth/academicaffairs/registration/undergraduate.html

Public Health Faculty
The College of The Arts exists in the context of a dynamic, contemporary, urban, research university setting, characterized by its cultural diversity. The College provides opportunities for students to develop their interests and talents to the fullest whether they wish to pursue a creative or performing career, a research career, a teaching career, or life-long artistic enrichment.

Mission

The mission of the USF College of The Arts is to conduct scholarly and creative research and to challenge and inspire students to make significant contributions in the arts.

The College provides a learning environment that is engaged locally and nationally in contemporary issues and initiatives.

Vision

The USF College of The Arts aspires to achieve national and international recognition as a distinguished center for study, creation, and research in the arts.

The College will provide an innovative and exciting environment to prepare the next generation of artists, architects, designers, educators, scholars, and audiences.

The College will support and promote creative research, performance, and production in the visual and performing arts.

The College will engage in advancing the cultural vitality of the Tampa Bay region.

The College of The Arts is a unique entity housing the School of Architecture and Community Design, School of Art and Art History, the School of Music, and the School of Theatre and Dance. The Institute for Research in Art includes the Contemporary Art Museum, Graphicstudio, and the program for Public Art. All serve multiple academic purposes within the College of The Arts as well as enrich the cultural environment within the university community. More information about each program is available on the College website at http://www.arts.usf.edu/.

College Activities and Events

The College of The Arts arranges a full schedule of concerts, plays, lectures, films, and workshops featuring students, faculty, and visiting artists and scholars. Events are open to the general public and are presented both during the day and in the evening. Special ticket privileges are available to USF students. For more information, contact the Arts Events Office at (813) 974-2323 or http://eps.arts.usf.edu/.

Visiting Artist and Scholars Program and Artist-in-Residence

The College of The Arts is committed to creating and cultivating an artistic environment to enhance the total learning experience of its students and the community at large. Each year internationally recognized performing groups, visual artists and scholars are invited to the campus for a period of residency. The visiting artists and scholars provide opportunities for students and the community to participate in their teaching, creative, and performing abilities.

Institute for Research in Art

USF’s Institute for Research in Art (IRA) houses the Contemporary Art Museum, Graphicstudio and the program for Public Art. The IRA is dedicated to an international artists’ residency program that brings to the University and Tampa Bay community today’s most accomplished and influential artists working in the international arena. Exhibitions, collection development, publication of limited edition graphics and sculpture multiples, commissioned public art works, lectures, symposia, workshops and special events are designed to foster awareness about the role of contemporary artists in shaping our culture and society.

Contemporary Art Museum

The Contemporary Art Museum presents exhibitions that focus on contemporary art and showcase the work of faculty, students and alumni. The exhibitions and art collection serve as an integral part of the studio and art history curriculum of the School of Art and Art History. Educational programs are offered to the University and Tampa Bay community. The Contemporary Art Museum houses the USF art collection that is composed of original graphics, drawings, photographs, and African and Pre-Columbian artifacts.

Graphicstudio

Graphicstudio was founded in 1968 as an experimental, research-oriented collaborative workshop in the College of The Arts. Over sixty leading international artists have created more than 400 limited-edition fine art works at Graphicstudio, in intaglio, photogravure, lithography, relief, serigraphy, sculpture, and artist books. Graphicstudio’s works are archived at the National Gallery of Art in Washington, D.C., the only university-based workshop so honored. Graphicstudio offers unique opportunities for graduate students to work and learn in a professional environment. Offerings include classes, conferences, internships and graduate assistantships in printmaking, sculpture fabrication, curation, education, and arts administration.
Contemporary Arts Program
In conjunction with the Endowed Chair and program in Contemporary Art History, the College promotes understanding of contemporary art practice and provides opportunities for persons interested in a critical and research-oriented engagement with contemporary discourse.

The British International Theatre (BRIT) Program
The BRIT program provides residencies for major British theatre artists to work from two to eight weeks each year in master classes and theatre productions. This private/public-endowed partnership creates a rich learning and performing environment for theatre students.

The John W. Holloway Endowed Chair in Dance and Theatre
The Holloway endowment provides short and long term working residencies for major dance and theatre artists in master classes and on productions in dance and theatre. This program fosters original, contemporary, and traditional dance compositions and theatre works enhanced by visiting artists working in collaboration with faculty and students.

Systems Complex (SYCOM) for the Studio and Performing Arts
SYCOM offers facilities for all different fields of professional audio, from analog synthesis to MIDI to digital recording. Through a wide range of courses, students learn techniques of the professional recording studio and the skills to record and produce live music, as well as modern digital audio editing and mastering.

Music Festivals
The School of Music sponsors a variety of Festivals for high school students. Among these are the Festival of Winds which enjoys a tradition of more than 25 years on the USF campus, the Festival of Voices which brings talented high school vocalists to campus to experience choral singing under the direction of USF faculty and guest conductors, and the Festival of Strings that features orchestral and chamber music experiences. All the Festival programs provide an opportunity for participants to experience an intensive and high level musical experience while enjoying the fellowship of other talented musicians in the context of a supportive and educational atmosphere provided by the faculty and students of the School of Music. For details about each program, contact the Coordinator of Admissions in the School of Music.

BACCALAUREATE-LEVEL DEGREE PROGRAMS
The College of The Arts offers four undergraduate degrees:
- Bachelor of Arts (B.A.) in Art Studio; Art History, Dance, Music Studies, and Theatre
- Bachelor of Music (B.M.) in Music
- Bachelor of Fine Arts (B.F.A) in Studio Art, Dance
- Bachelor of Science (B.S.) in Music Education

Undergraduate Admission to the College of The Arts
Admission to the College of The Arts is contingent on acceptance into the university through the USF Office of Admissions. Additionally, students who wish to major or minor in art history, dance, or theatre should contact the respective School. Admission is open for Theatre majors. Auditions are required for admission to the Dance program and the School of Music and must occur on specific dates as posted by those programs. The School of Art & Art History requires a satisfactory portfolio review of all candidates seeking admission to the B.A. in Studio Art or the B.F.A. in Studio Art. Specific dates will be posted by the program. Students who have not presented an acceptable portfolio on the posted date prior to orientation and registration will not be admitted into the School. The B.A. in Art History does not require a portfolio review. Please note, however, that Art History majors may take only those studio courses mandated by the state for their degree program. Art History students, who wish to take other studio courses, or to double major, must successfully fulfill the requirement for portfolio review at the regularly scheduled time. Transfer students who wish to major in Studio Art must complete the equivalent core curriculum and pass a regularly scheduled portfolio review prior to admission to the School of Art & Art History. All prospective students in the College of The Arts must complete the necessary forms in the Office of Student Services and Advising in FAH 120 in order to be on file as majors or minors.

Although the Theatre program is an open admission program, transfer students and current USF students who request admission to this program must be placed according to their abilities. Theatre students wishing to concentrate in performance or design must audition or have a portfolio review for acceptance into the upper-division concentration courses. Dance and music students must complete successful auditions prior to orientation and registration for their home unit’s core courses. Art students must successfully complete a scheduled portfolio review prior to orientation and registration.
COLLEGE OF THE ARTS

UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG

Students with previously earned college credit, who request admission to the College of The Arts are required to provide copies of their transcripts to their advisors for the purpose of deciding which credits can apply to their degree program at USF. Copies of catalog pages with course descriptions from previous institutions are needed for each course being transferred for degree requirements. A minimum grade of C- (C for Theatre and Dance) is usually necessary for courses in the concentration.

General Requirements for Bachelor Degree Programs within the College of The Arts

1. All Bachelor degree programs require 120 credit hours.
2. Foundations of Knowledge and Learning (FKL) Requirements may be satisfied by (1) completing the university’s Foundations of Knowledge and Learning Requirements, (2) completing the A.A. degree from a Florida Junior, State or Community College, or (3) completing the general education requirements from another Florida College System institution. FKL courses transferred from other accredited institutions will be evaluated based on USF General Education equivalencies. The A.A. degree is in no way a requirement for acceptance into the College of The Arts (or into any one of its upper-level degree programs), or a requirement for graduation from the university.
3. Students admitted to the College of The Arts with transfer credits, or former students returning with credits dating ten or more years prior to admission (or readmission), will have those credits reviewed by the College and department/school and may be required to take specified competency tests in their major area.
4. A maximum number of ROTC credits totaling no more than the maximum allowed in the Free Elective Area for each major may be counted toward all degrees.
5. A maximum of four credit hours of elective Physical Education credits taken at USF may be counted as general elective credit toward all degrees.
6. Students applying for a B.A. degree must demonstrate competency in a foreign language as described under Foreign Language Competency Policy of this catalog.
7. Students applying for a B.A. degree must meet the writing and computation course requirement of Board of Governor’s Regulation 6.017 (6A Gordon Rule).
8. For degree programs, see requirements listed under each School.
9. Beginning Fall semester 2012, students must successfully complete a minimum of 50 percent of the courses required for their major on their specific home campus within the USF System. A student must also earn 30 of the last 60 hours of credits in residence at USF. However, any course work to be taken and any credits to be earned outside of the university must have prior approval from the appropriate school and the college in order to apply these credits toward graduation.

College Policy for Academic Progress

The following criteria will serve as the bases for disenrollment from a major in the College of The Arts:
1. Grade point average below 2.0 in the major.
2. Recommendation by major applied (studio) art, dance, music or theatre faculty with approval of respective school director.
3. The school may recommend probationary status (rather than disenrollment) for one semester when academic progress is not maintained.

Contracts and Permission Procedures

Directed Studies Contracts

All Directed Studies and other variable credit courses in the College of The Arts require contracts between students and instructors describing the work to be undertaken by the student and specifying the credit hours. These contracts are to be completed in quadruplicate and appropriately signed. It is the student’s responsibility to obtain the necessary signatures and make the required distribution of all copies. Important: the student must have his/her signed copy of a contract at the time of registration.

S/U Grade Contracts

The College of The Arts requires that any S/U grading agreement entered into between student and instructor be formalized by a contract in quadruplicate signed by the student and the instructor and distributed according to instructions.

“I” Grade Contracts

Incompletes must be contracted for by mutual agreement between student and instructor, with the contract describing specifically the amount and nature of the work to be completed for the removal of the incomplete grade. This
contract additionally clearly specifies the date that the work will be due (within legal limits) for grading. Both the student and the instructor must sign this contract and the four copies must be distributed according to instructions. A student must not register for a course again to remove an “I” grade.

Permission Procedures

Admission into some courses is possible only by consent of instructor (CI), consent of chairperson (CC), consent of advisor, or by audition or portfolio review. When such special permission is required, it will be the student’s responsibility to obtain any required permission prior to registration.

S/U Grading in the College

1. Non-majors enrolled in courses in the College of The Arts may undertake such courses on an S/U basis with instructor approval. See Contracts and Permission Procedures for information concerning S/U Grade Contracts.
2. Credits earned by a non-major student with an “S” grade will not count toward the student’s minimum major course graduation requirement should that student ultimately decide to become a major student in one of the four arts disciplines in the College. Instead, such credits earned with an “S” grade will be assigned to the student’s Free Elective category (with the exception of music, which will become non-countable).
3. Although College of The Arts majors may take coursework in their major as Free Electives, they are not entitled to the S/U grading option for these courses taken in their major subject area, even when specifically used or intended to be used as Free Electives.
4. In the College of The Arts, the only S/U graded courses available to a major student in his/her major subject area are those curriculum allowable courses designated S/U (that is, S/U only).
5. A maximum of 9 credit hours of S/U credits in non-major courses may apply towards a degree in the College of The Arts.

Please refer to Academic Policies section for more information concerning the university’s S/U Grading policy.

Dean’s List Honors

See Academic Policies and Procedures, Programs and Services.

Interdisciplinary Study

There is no formal interdisciplinary arts degree offered in the College of The Arts. However, it is possible for a student to pursue such a program of study in the College by utilizing free electives allowed in the major program. A student may also choose a double undergraduate major in two units or arts disciplines within the College of The Arts as a means of interdisciplinary study. See the major advisor in the programs of particular interest.

Minor Programs

The College of The Arts offers minor programs in Art History, Studio Art, Dance, and Theatre. Majors in the College of The Arts may pursue a minor in any certified minors program at USF except within the same arts discipline as the major. The requirements for these programs are located under the school academic program descriptions and also require that a minimum of eight hours be taken at USF. For university minor policy, consult that section in the catalog.

The Arts Advising

The College of The Arts (CoTA) Office of Student Services and Advising, located in the Fine Arts building (FAH), offers a comprehensive service to all students in CoTA and advice to non-majors who are interested in taking CoTA courses. The service includes orientation, registration, academic advising, scholarships, graduation certification, petitions and referrals to other university and community-based services and career-related opportunities. Five major-field advisors (architecture, art, music, theatre, dance), and support staff work with students toward their matriculation according to curricular outlines. However, the student must remember that he or she is ultimately responsible for meeting all graduation requirements.

The goals of the office of Student Services and Advising are to:
- Help students clarify their life and career goals
- Help students develop their educational plans
- Help students select appropriate courses
- Help students interpret institutional requirements
- Track student progress toward established goals
- Facilitate total student development and success
- Foster the development of individual student's talent to the fullest
SCHOOL OF ARCHITECTURE & COMMUNITY DESIGN

Mission
The School of Architecture & Community Design, founded in 1986, emphasizes architecture and community design proficiency, technical competency, and applied research that constitute thorough preparation for practice in the 21st century. The School of Architecture & Community Design's mission is to provide graduate level education that:
- Provides a holistic design curriculum and instruction through a variety of pedagogical approaches.
- Encourages individual and collaborative discoveries.
- Emphasizes continuity between design and construction.
- Builds technical and professional proficiency.
- Offers wide ranging global learning experiences.
- Provides opportunities for engagement with diverse communities.

And for students and faculty to conduct scholarly research and creative activity that:
- Is innovative, disciplinary, and interdisciplinary.
- Advances the understanding of the built environment as it relates to society and culture.
- Contributes to theory and practice in the disciplines of architecture and urbanism.
- Relevant to local communities.
- Advances the contemporary state of critical practice.
- Provokes (stimulates/instigates) critical discourse on architecture and urbanism.
- Explores (embraces) emerging technologies.

Our aim is to graduate professionals who will be recognized for their design excellence in enhancing the quality of the built environment.

ARCHITECTURE STUDIES FOR UNDERGRADUATES

The School of Architecture & Community Design (SACD) offers graduate degrees and certificates. In some circumstances, undergraduates can enroll in the Master of Architecture program before completing a baccalaureate degree:

Master of Architecture Program for Non-Degree Holding Students

For non-degree holding students, the School’s professional program involves a minimum of 165 credit hours of undergraduate and graduate work, leading to the Master of Architecture degree. No bachelor’s degree is awarded.

Before entering the program, students are to complete a minimum of 60 credit hours of general education and prerequisite courses at a community college (in an associate of architecture transfer program), the University of South Florida, or other college or university. Having completed these requirements, students will complete the School’s 105 credit hour, Master of Architecture program.

Students electing course of study will hold “undergraduate” status for the first 120 credit hours and “graduate” status for the remaining credit hour requirement.

In addition to, or part of, the undergraduate course requirements of 60 credit hours, all undergraduate students must have successfully completed the following prerequisites for admission into the program:

ARC 2211 Introduction to Architecture
ARC 2131 Introduction to Architectural Design and Graphics
ARC 2135 Introduction to Architectural Design and Graphics II
Creative art or design courses (minimum 8 credit hours)
An undergraduate course in Calculus;
An undergraduate course in Physics;
An undergraduate course in Computer-Aided Drafting (CAD).

Master of Architecture Program
(For students with a 2-year Associate’s Degree in Architecture)

Students having a two-year, associate’s degree in architecture must complete a minimum of 93 credit hours in the School’s Master of Architecture program. Holders of an Associate’s degree in Architecture will normally receive a waiver of 12 credit hours for their previous design studio experience, reducing the normal 105 credit hour Master of Architecture degree requirement to 93 credit hours. Further, these students may receive waivers for the following architectural
courses in which a grade of B or better was earned: Design Theory, History I, History II, and Structures I. However, pending the review of each applicant’s transcript and portfolio, these credit hour and course waivers may not be granted.

In addition to, or part of, these curricula requirements, all undergraduate students must have successfully completed the following prerequisites for admission into the program:

a. an undergraduate course in Calculus;
b. an undergraduate course in Physics;
c. an undergraduate course in Computer-Aided Drafting (CAD)

Architecture Courses for Undergraduate Students not seeking the Master of Architecture Degree

The School encourages other University students, not pursuing the Master of Architecture degree, to enroll in its numerous undergraduate and graduate courses as electives within their individual majors. The School offers ARC 2211 Introduction to Architecture as an approved Foundations of Knowledge and Learning Core Curriculum (General Education) course. Credits earned in the School’s graduate-level elective courses on a non-degree seeking basis can later be applied toward advanced standing in the Master of Architecture curriculum by those students who meet the School’s admission requirements.

Admission into the School of Architecture & Community Design (SACD)

In order to enroll in the Master of Architecture program, interested students must be accepted into the University as well as the School. Undergraduate students must be accepted into the University of South Florida by the Office of Undergraduate Admissions and into the School of Architecture & Community Design by the College of The Arts. These are separate admissions processes that involve different application forms, supportive materials, and deadlines. For more detailed information, students should see Undergraduate Admissions online and visit the SACD website at http://www.arch.usf.edu/.

RESEARCH AND OTHER ACTIVITIES

Florida Center for Community Design + Research

The Florida Center is a non-profit public service institute of the School of Architecture & Community Design. It was founded in 1986 to assist the citizens of Florida in the creation of more livable and sustainable communities through applied community design, multi-disciplinary research, and public education. The diverse staff includes architecture faculty and students, research scientists, programmer, and analysts. In addition, the Center has affiliated faculty or graduate students from the Department of Anthropology, Biology, Art and Art History, Geography, and Social Work.

Lectures/Exhibits

Throughout the year, nationally and internationally known architects, scholars, urban designers, landscape architects, and others participate in the School’s lecture series. The School also exhibits outstanding work of students, alumni/ae, and professionals at galleries at USF and elsewhere in Tampa.

Student Groups

Students at USF have access to a wide range of activities within the School of Architecture & Community Design and elsewhere in the university and community. At the school, one may join the American Institute of Architecture Students (AIAS) the Architecture College Council, Women in Architecture, Emerging Green Builders and the Construction Specification Student Chapter (CIS). Students participate in a wide range of school governance committees and task forces.

Study Abroad

The School sponsors summer study abroad programs in China, Japan, India, Italy, Spain, and other locations.

Accreditation and Licensure

Applicants for architectural licensure in Florida, and most jurisdictions in the United States, normally must have:

- earned a professional degree from a School accredited by the National Architectural Accrediting Board (NAAB)
- completed the Intern Development Program (IDP)
- passed the Architect Registration Examination (ARE)

According to the 2004 edition of the NAAB Conditions and Procedures:

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit US professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.
Master’s degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The Master of Architecture program at USF is fully accredited.

Architecture & Community Design + Florida Center for Community Design & Research Faculty
Director: R. MacLeod; Associate Professors: S. Cooke, T. Green, M. Halflants, D. Powers, N. Sanders; Assistant Professors: S. Bassett, L. Kara, V. Mehta, S. Russell, M. Weston; Research Associate Professor: S. Landry; Associate in Research: J. Griffin, T. Johnson.

SCHOOL OF ART & ART HISTORY
The School of Art & Art History offers the Bachelor of Fine Arts (B.F.A.) degree in Studio Art, the Bachelor of Arts (B.A.) degree in Studio Art, and the Bachelor of Arts (B.A.) degree in Art History. The two studio curricula (B.A. - studio concentration and B.F.A.) are designed to develop the student’s consciousness of aesthetic and ideological aspects of art and its relationship to life and to assist students in the realization of personal ideas and imagery. Many students interested in college teaching, museum or gallery work, fine or commercial studio work pursue the extended discipline and experience offered at the graduate level.

Although the Studio Art programs allow many possible courses of study, most art major students will select one area of emphasis chosen from the course offerings listed.

The major areas of emphasis, available to Tampa campus undergraduate Art Studio students are Drawing, Painting, Sculpture, Ceramics, Digital Video and Electronic Arts, Printmaking and Photography. Admission to the School of Art & Art History Bachelor of Fine Arts program is by portfolio, and candidates for admission must successfully complete a portfolio review at a posted review date in order to be admitted. Applicants should submit the required information by the deadlines for each term as posted on the School of Art & Art History website: http://art.arts.usf.edu. Application to the B.A. in Studio Art or Art History does not require a separate application to the School of Art & Art History nor a portfolio.

Please note that acceptance into the School of Art & Art History does not mean that you are admitted to USF and that acceptance by USF does not mean that you have been accepted by the School of Art & Art History. Each application process is separate and both must be completed for consideration of acceptance into the studio programs.

Transfer studio credit will be accepted on the basis of portfolio and transcript evaluation. The School of Art & Art History will accept all Florida College System institutions that are part of the “Common Prerequisites.”

The Art History program (B.A. - Art History) reflects the faculty’s belief that strong liberal arts study, supplemented with internships and travel, is the most appropriate preparation for students who desire further study at the graduate level or professional work in the fields of art history research, teaching or galleries and museums. Students who pursue the BA in Art History will acquire a broad, thorough knowledge of art from prehistory to the present.

For additional requirements see Graduation Requirements, College of The Arts.

Please note: Enrollment into the School of Art & Art History as a studio major is contingent upon two separate applications and acceptances:
1. Submission of completed USF Admissions application and acceptance into the University of South Florida, and
2. Submission of completed School of Art & Art History application and acceptance into the School of Art & Art History.

Application to the B.A. Art History does not require a separate application to the School of Art & Art History nor a portfolio.

- **Studio Art-B.A. (SBA) (CIP = 50.0701)**
  **TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

Prerequisites (State Mandated Common Prerequisites)

The School of Art & Art History encourages students who wish to transfer from Florida Community Colleges to complete their A.A. prior to transfer. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students may complete the prerequisite courses listed below prior to entering the university. Unless stated otherwise, a grade of C is the minimum acceptable grade. The following prerequisite courses will be accepted as meeting lower-level requirements:
- ART X201 Design I
- ART X202 Design II or ART X203
- ART X300 Drawing I
Requirements for the Major in Studio Art (B.A.)

The following courses apply to the B.A. degree in Art Studio:

I. Art Preparation (18 credit hours):

ARH 2050 History of Visual Arts I*
ARH 2051 History of Visual Arts II*
ART 2201C Concepts and Practices I**
ART 2203C Concepts and Practices II**
ART 2301C Beginning Drawing
ART 3310C Intermediate Drawing

*History of Visual Arts I and II must be used to satisfy the FKL “Humanities” requirement if the student is to remain within 120 hours for the degree.

**Concepts and Practices I or II must be used to satisfy the FKL “Fine Arts” requirement if the student is to remain within 120 hours for the degree.

All studio courses, other than those designed as core or beginning studios, require the completion of the following core courses: ART 2201C or equivalent, ART 2203C or equivalent, ARH 2050 or ARH 2051, and ART 2301C or equivalent and ART 3310C or equivalent. Students intending to pursue the Studio B.F.A should refer to our web site at http://www.art.usf.edu for the scheduled review date.

II. Beginning Studio Workshops (12 credit hours):

ART 2400C Beginning Printmaking
ART 2500C Beginning Painting
ART 2701C Beginning Sculpture
ART 2750C Beginning Ceramics
ART 3612C Digital Video and Electronic Arts
PGY 2401C Beginning Photography

These courses may not be repeated. These courses are prerequisites to the intermediate-level Studio Courses. Students must take at least one two-dimensional and one three-dimensional studio course.

III. Intermediate Studio Workshops (6 credit hours):

3000-Level Studio
B.A. students may take advanced courses if they have the requisite 3.25 major GPA and course prerequisites. This would represent work in excess of degree requirements.

IV. Expanded Context Courses (3 credit hours):

A minimum of 3 hours of studio work must be from selected expanded context courses. Expanded context courses include ART 4806 Theme Studio, cross-media classes and/or ART 4930 special topics studio classes.

V. Art History (9 credit hours):

ARH 4170 Greek & Roman
ARH 4200 Medieval
ARH 4301 Renaissance
ARH 4350 Baroque and Rococo
ARH 4430 19th Century
ARH 4450 20th Century**
ARH 4475C Contemporary Issues in Art
ARH 4520 African
ARH 4530 Asian Art
ARH 4800 Critical Studies
ARH 4930 Art History: Selected Topics***

*Three (3) credit hours may be taken in either ARH 4800 Critical Studies in Art History seminar or ART 4900 Directed Readings.

**ARH 4450 is required of all majors.

***ARH 4930 Art History: Selected Topics may be taken for degree credit only by approval of the academic advisor for the School of Art and Art History.

VI. Additional Requirements (2 credit hours):
**Extended Studies***

*Paris Program, Public Art, Museum Internships, Community Art, Artists Internships/Apprenticeships, and London Middlesex Program.

**VII. Recommendations**

Students are encouraged to take additional credits in the Studio Workshops and Theme Studio Courses to fulfill art electives.

All coursework in the School of Art & Art History must have a grade of C- or better to satisfy program requirements, with the exception of the non-foreign language prerequisite courses, which required a minimum grade of C.

**Total Semester Hours for the B.A. degree in Art Studio**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FKL General Education Core Curriculum*</td>
<td>27</td>
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<tr>
<td>EXIT Requirements</td>
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<td>Art Requirements</td>
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<tr>
<td>Free Electives (Maximum Art 9 hours)</td>
<td>37</td>
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<tr>
<td><strong>Total 120 hours</strong></td>
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*Please note that 9 hours of FKL requirements are satisfied by the Art School curriculum and that the actual total hours in FKL General Education courses remains 36 as state-mandated.

**Note:** All Students earning a B.A. degree in Studio Art or Art History must complete the Foreign Language Exit Requirement.

- **Studio Art-B.F.A. (SBF) (CIP = 50.0702) (Track 1 of 2)**
  **TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

**Prerequisites (State Mandated Common Prerequisites)**

The School of Art & Art History encourages students who wish to transfer from Florida Community Colleges to complete their A.A. prior to transfer. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students may complete the prerequisite courses listed below prior to entering the university. Unless stated otherwise, a grade of “C-” is the minimum acceptable grade. The following prerequisite courses will be accepted as meeting lower level requirements:

- ART X201 Design I or ART XXXX
- ART X202 Design II or ART X203 or ART XXXX
- ART X300 Drawing I
- ART X301 Drawing II or ART X300 or ART X205 or ART X310 or ART X305
- ART X050 Art History Survey I
- ART X051 Art History Survey II
- ART XXXX 6 semester hours of ART courses

**Note:** It is recommended that transfer students complete both Design I and Design II prior to transfer. If a student does not complete Design I and Design II prior to transfer they should wait and enroll in ART 2201 (Concepts and Practices I) and ART 2203 (Concepts and Practices II) at USF.

**Requirements for the Major in Studio Art (B.F.A.)**

Admission into the B.F.A. program is contingent upon the student having a 3.25 major GPA, which must be maintained for the degree to be awarded. The accelerated studio experiences provided for students meeting the requirements of the Bachelor of Fine Arts degree will better prepare them for professional participation in the visual arts. Any B.F.A. candidate with a major G.P.A. of less than 3.25 upon completion of 40 hours in the major must change his or her program from B.F.A. to B.A.

All studio courses—other than those designated as core or beginning studios--require the completion of the following core courses: ART 2201C or equivalent, ART 2203C or equivalent, ARH 2050 or ARH 2051, ART 2301C or equivalent, and ART 3310C or equivalent and a satisfactory portfolio review. Refer to our web site at [http://www.art.usf.edu](http://www.art.usf.edu) for the scheduled review date.

The B.F.A. program in Studio Art will expose the student to many possibilities in the art-making process. The areas of emphasis in art media on the Tampa campus are painting, drawing, printmaking, photography, sculpture, ceramics, and electronic media/video/performance. These options provide access to a comprehensive program of study in art. Students can develop their conceptual and technical skills in a particular art discipline or decide to investigate a specific subject through the use of numerous media and “mixed” forms of art.

The USF School of Art & Art History hosts fully equipped studios in all of these disciplines.
The B.F.A. program in Graphic Design is a limited access program and offered only at USF St. Petersburg. (Juniors and Seniors only)
Transfer credit from other institutions is accepted on the basis of portfolio and transcript evaluation. The School of Art & Art History accepts transfer credit from all Florida programs that are part of the “common course prerequisites”.

I. Art Foundations (18 credit hours):
ARH 2050 History of Visual Arts I*
ARH 2051 History of Visual Arts II*
ART 2201C Concepts and Practices I**
ART 2203C Concepts and Practices II**
ART 2301C Beginning Drawing
ART 3310C Intermediate Drawing
*History of Visual Arts I and II must be used to satisfy the FKL “Humanities” requirement if the student is to remain within 120 hours for the degree.
**Concepts and Practices I or II must be used to satisfy the FKL “Fine Arts” requirement if the student is to remain within 120 hours for the degree.

II. 2000 Level Studio (12 credit hours):
2000 Level 2-D Studio
2000 Level 3-D Studio
2000 Level Specialization
2000 Level Elective Studio

III. 3000 Level Studio (18 credit hours):
3000 Level Specialization
3000 Level Non-Specialization
3000 Level Elective Studio

IV. 4000 Level Studio (9 credit hours):
4000 Level Specialization
3000 or 4000 Level Elective

V. Expanded Context Courses (3 credit hours):
A minimum of 3 hours of studio work must be from selected expanded context courses. Expanded context courses include ART 4806 Theme Studio, cross-media classes and/or ART 4930 special topics studio classes.

VI. Art History (9 credit hours)
ARH 4450 20th Century
ARH 3475C Contemporary Issues in Art
4000 Level Period Art History

VII. Additional Requirements (10 credit hours):
ART 3939 Real World
ART 4940 Extended Studies*
ART 4970 Senior Thesis**
**Must be taken with the second Advanced Studio in the student’s specialization.

Total Semester Hours for the B.F.A. degree in Art Studio:
FKL General Education Core Curriculum * 27
EXIT Requirements 6
Art Requirements 79
Free Electives 8
Total 120 hours
*Please note that 9 hours of the FKL requirements are satisfied by the Art School curriculum and that the actual total hours in FKL General Education courses remains 36 as state-mandated.
• ART HISTORY (AHM) (CIP = 50.0703)
  TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Prerequisites (State Mandated Common Prerequisites)
The School of Art & Art History encourages students who wish to transfer from Florida Community Colleges to complete their A.A. prior to transfer. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students may complete the prerequisite courses listed below prior to entering the university. Unless stated otherwise, a grade of C- is the minimum acceptable grade. The following prerequisite courses will be accepted as meeting lower level requirements:

- ART X201 or ART X202 or ART X203 or ART X205
- ART X300 or ART X301 or ART X310
- ART X050 Art History Survey I
- ART X051 Art History Survey II
- XXX XXXX 9-12 semester hours of a single foreign language

Requirements for the Major in Art History (B.A.)
The following courses are necessary for completing a B.A. degree in Art History:

I. Art Preparation (12 credit hours):
- ARH 2050 History of Visual Arts I*
- ARH 2051 History of Visual Arts II*
- ART 2201C Concepts and Practices I
- ART 2301C Beginning Drawing

*History of Visual Arts I and II must be used to satisfy the General Education Historical Perspectives requirement if the student is to remain within 120 hours for the degree.

II. Art History Survey (18 credit hours):
- ARH 4170 Greek & Roman
- ARH 4200 Medieval
- ARH 4301 Renaissance
- ARH 4350 Baroque and Rococo
- ARH 4430 19th Century
- ARH 4450 20th Century
- ARH 4475C Contemporary Issues in Art
- ARH 4520 African
- ARH 4530 Asian Art
- ARH 4930 Art History: Selected Topics*

*ARH 4930 Art History Selected Topics may be taken for degree credit only by approval of the academic advisor for the School of Art and Art History.

III. Art History Critical Studies or Directed Reading (9 credit hour):**
- ARH 4800 Critical Studies in Art History and/or
- ART 4900 Directed Reading

**Students may substitute 3 hours of ARH 4800 Critical Studies for 3 hours of 4000-level Art History Survey by permission of the instructor.

IV. Plus (2 credit hours):
- Extended Studies: required of all majors - London Middlesex Program, Paris Program, Public Art, Museum Internships, Community Art, Artists Internship/Apprenticeships, Art History Apprenticeships

V. Recommendations
Students are encouraged to take additional credits in Art History critical studies courses and Art History survey courses.

All coursework in the School of Art & Art History must have a grade of C- or better to satisfy program requirements, with the exception of the non-foreign language prerequisite courses, which required a minimum grade of C.

Total semester Hours for the B.A. degree in Art History

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<th>Component</th>
<th>Hours</th>
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<td>Exit Requirements</td>
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<td>Art Requirements</td>
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<td>Non-Art Electives</td>
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<td>—Free Electives (Art or Non-Art)</td>
<td>19</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>120 hours</strong></td>
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</tbody>
</table>
Requirements for the Minor in Art (ART)

The School of Art & Art History offers two concentrations for the Minor in Art and they are: Studio and Art History.

**Studio Concentration:** Total of 24 minimum credit hours required:

I. Art Area Preparation (15 credit hours):
   - ARH 2050 History of Visual Arts I
   - ARH 2051 History of Visual Arts II
   - ART 2201C Concepts and Practices I
   - ART 2203C Concepts and Practices II
   - ART 2301C Beginning Drawing

II. Art Studio (9 credit hours)
   - Beginning Studio Workshop
   - Intermediate Studio Workshop or Theme Studio

**Art History Concentration:** 21 minimum credit hours required:

I. Art History Preparation (9 credit hours)
   - ARH 2050 History of Visual Arts I
   - ARH 2051 History of Visual Arts II
   - ART 2201C Concepts and Practices I or ART 2203C Concepts and Practices II

II. Art History (12 credit hours):
   - Art History Survey

**VISITING ARTISTS AND SCHOLARS**

The School of Art & Art History is widely known for the consistent level of excellence of its programs. Aside from the contributions of its permanent staff, and to ensure the continuing expansion of learning opportunities available to students, the School has brought to the campus internationally known artists and lecturers such as Alice Aycock, Linda Benglis, Jack Burnham, James Casebere, Albert Chong, Robert Colescott, Hal Foster, Guillermo Gomez-Pena, Adam Gopnik, The Guerrilla Girls, Dave Hickey, Barbara Kruger, Donald Kuspit, Alfred Leslie, Christian Marclay, Komar and Melamid, Marlon Riggs, Tim Rollins, Alison Saar, Lorna Simpson, Miriam Shapiro, Renee Stout, Sidney Tillum, John Waters, and The Art Guys.

**USF CONTEMPORARY ART MUSEUM**

The USF Contemporary Art Museum (CAM) is recognized as one of the leading cultural institutions in the state by the State of Florida Cultural Institutions Program. The USF CAM brings vital, investigative, and scholarly exhibitions of contemporary art to the university and Tampa Bay Community. Artists include Matt Mullican, Robert Stackhouse, Pat Steir, Tyler Turkle, and Robin Winters, as well as internationally recognized artists from Africa, Europe, and Latin America, such as Leo Copers, Patrick Corillon, Alfredo Jaar, Antonio Martorelli, Pepon Osorio, and Peter Weibel. The Museum also houses the university’s art collection with exceptional holdings in graphics, sculpture multiples, and recent photography. The Museum is actively engaged in commissioning architecturally related public art projects designed to enhance the public spaces on the USF campus. Recent projects include works by Dale Ered, Richard Fleischner, Doug Hollis, Nancy Holt, Ned Smyth, and Elyn Zimmerman. USF CAM organizes symposia, lectures, workshops, and visiting artist presentations to engender interest in contemporary art, educate the public, and facilitate the exchange of ideas among artists, museum members, experts in the art field, and the community. The exhibition, educational programs, and art collection serve as an integral part of the studio and art history curriculum of the School of Art and Art History and other liberal studies areas while enhancing the cultural vitality of the campus and Tampa Bay communities.

**GRAPHICSTUDIO**

The Institute for Research in Art/Graphicstudio was founded within the College in 1968 to perform basic research in the visual arts through collaboration with internationally renowned artists in the production of print and multiple editions.

Over the years, Graphicstudio has received many honors including the establishment of a permanent archive at the National Gallery of Art in Washington, D.C., and the achievement of the “Florida Arts Recognition Award” from the Department of State. Work/study programs, directed study, as well as graduate assistantships are available to USF students at Graphicstudio’s production facility. Students are able to study completed editions as well as preparatory works in the Graphicstudio Gallery. Graphicstudio also sponsors lectures by invited guests and colloquia on a variety of subjects relating to the visual arts.
Art & Art History Faculty

Director: W. Wilson; Professor: E. Fraser, L. Marcus; Associate Professors: W. Babcox, N. Bender, J. Byrd, E. Condon, G. Green, R. Lawrence, R. Marchi, B. Shanks, H. Szepe, J. Weitz; Assistant Professors: C. Comejo, A. Ekberg, N. Mason, A. Moore, A. Pollack; Instructors: M. Fournier; Assistant in Student Advising: R. Olinger; Distinguished Professor-Dean Emeritus: D.J. Saff; Dean Emeritus-Professor Emeritus: H.W. Covington; Chair Emeritus-Professor Emeritus: G. Pappas; Professor Emeriti: E. Cox, A. Eaker, C. Fager, J. Kronsnoble, M. Larsen, C. Lyman, B. Marsh.; Associate Professor Emeritus: D. Wright, T. Wujcik.

SCHOOL OF MUSIC

The music curriculum is designed for students gifted in the performance, teaching, and/or composition of music. Applicants for a major in music are required to pass an entrance audition in their respective performance areas. Composition applicants may be asked to submit appropriate scores and/or tapes of their compositions for faculty appraisal in addition to passing an entrance audition.

Academic programs offered in the Bachelor of Music (B.M.) degree include the areas of Performance (voice, piano, and orchestral instruments), Composition (acoustic and electronic), Electronic Music (including acoustic), and Jazz Studies.

The Bachelor of Science (B.S.) degree in Music Education is designed to serve students who wish to develop a high level of musical expertise and have a commitment to help develop musical potentials in other people.

The Bachelor of Arts (B.A.) degree in Music Studies is a liberal arts degree with a greatly reduced number of credit hours in music. It allows students to pursue a double major and/or a minor in another field. The B.A. is offered with a choice of emphasis in Academic Studies or Applied Studies.

Acceptance into the School of Music

Students must apply for acceptance into the USF School of Music if they are an incoming freshman, transfer student, or part-time student and plan to major in any undergraduate degree program in music. Contact the Music Admissions Coordinator.

Applying for acceptance by audition into the School of Music is a separate procedure from the University admissions process. If a student is accepted into the School of Music but is denied acceptance into the University, he or she may contact the Music Advisor for assistance in appealing this decision.

Auditions

Audition Procedure: All students must audition before a committee consisting of the appropriate music faculty members. Campus audition dates are scheduled each year during January and February for Fall admission to the School of Music. Auditions for Spring admission are scheduled during December juries. Video auditions may be considered, but must be heard by the faculty committee as above. Composition and Electronic Music students may submit a portfolio as well as arrange an audition. Note that scholarship consideration will be given for live auditions only.

Music Theory Placement Examination

All freshmen and transfer music students are required to take a Music Theory Placement Examination. If the music advisor determines that a student does not have a background to be placed beyond Level 1, they will be registered for MUT 1111. For placement in the Written and/or Aural Theory sequence, placement tests are given at the first class meeting of MUT 1111. This test is evaluated by the Theory Coordinator and an appropriate placement is determined. The results of the exam will indicate the level of theory to which the student will be assigned.

Transfer Policy

USF evaluates and transfers credits from other institutions the student has attended. To ensure that transfer credits are properly applied toward the degree program, the issue should be discussed with the music advisor (CoTA) advising office, FAH 120. Personal copies of transcripts (in addition to those sent to USF) of all past course work and a copy of a catalog from the institution(s) at which the credits were earned should be shown to the advisor. This will help to credit the maximum application of course work completed at other institutions to a USF degree. Music credits applicable to the degree will be transferred only if they have grades of C- or better.

All incoming students must audition for acceptance into the School of Music and for placement in the applied music studio. Additionally, they must take placement tests in written theory, aural theory, and keyboard skills in order to receive advice for appropriate registration.

Theory courses taken in the Florida College System automatically transfer and substitute for the equivalent courses at USF.

Florida College System students are encouraged to complete the A.A. degree at their Florida community or state college. Some courses required for the major may also meet Foundations of Knowledge and Learning Requirements, thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and has
fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman
requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization,
foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the
above courses recommended.

Applied Music Requirement Policy
The following degree requirements must be completed in applied music:

**B.M. in Performance and Jazz Studies**
Minimum of 24 hours, including a minimum of two semesters (6 hours) at the 4000 level.

**B.M. in Acoustic and Electronic Music**
Minimum of 8 hours of applied music principal, including a minimum of two semesters at the 2000 level or higher.

**B.S. in Music Education**
Minimum of 12 hours of applied music principal, including a minimum of two semesters at the 3000 level.

First-time-in-college (FTIC) students generally will be placed at the 1000 applied music level; transfer students will
be evaluated by the faculty Audition Committee and placed at the appropriate level. All students will be promoted to
their next level of instruction upon the recommendation of their applied music teacher and successful completion of a
performance examination (jury) by area applied music faculty. This examination may be scheduled at the conclusion
of any semester, but definitely will occur at the end of spring semester.

Although permission is occasionally granted by the applied area faculty to give a recital in the first semester of the
final required level, no more than two semesters of applied studio lessons are allowed at each level, i.e., 1000, 2000,
3000, and 4000 levels. In rare instances, a third semester at the final required level for the degree program (3000 for
BA Performance Emphasis and B.S. degrees; 4000 for B.M. degree) may be allowed for extenuating circumstances
only by faculty jury consent. Therefore, the junior recital must be given no later than the second semester of the 3000
level, and the senior recital must be given no later than the second semester of the 4000 level. Note: Failure to comply
with the semester/level regulation and to earn at least a C- in any given semester will result in an automatic dismissal
from the School of Music.

Applied music courses consist of private lessons (time to be arranged between the student and faculty member) as
well as scheduled studio meetings. All undergraduate students enrolled in applied music are required to be enrolled
concurrently in at least one appropriate major ensemble corresponding to the applied major. Scholarship students may
be required to enroll in additional ensembles.

Piano Proficiency Requirement Policies
All Music Majors (other than Piano Performance and Jazz Studies majors) must demonstrate proficiency on the
piano, as established by the syllabi for Keyboard Skills I-IV, in order to graduate. They may do this in one of three
ways:

1. A Piano Proficiency Placement Exam, whereby students are expected to demonstrate technical and musical
   skills through performance of repertoire, scales arpeggi, harmonization, improvisation, and sight-reading. For
   students who do not pass this exam, the School of music offers four levels of Keyboard Skills courses as
   electives. Students will be placed in the level indicated by their exam performances. Ultimately, a grade of “C-
   “ or better in Level IV satisfies the Piano Proficiency Requirement.

2. If the music advisor determines that a student does not have a background to be placed beyond Keyboard
   Skills Level I, they will advise the student to register for Level I and no exam will be necessary.

3. A student who feels that he or she has acquired the necessary skills to meet the Piano Proficiency
   Requirement (either through accelerated practice or private lessons) may also sign up for the Piano
   Proficiency Placement Exam the first week of any semester and demonstrate their acquired skills to the
   Keyboard Skills Coordinator. If a student passes this exam, the Piano Proficiency Requirement will be met.

Jazz Studies majors must satisfy the Jazz Piano Proficiency requirement through a placement test administered by
the jazz faculty after completing the Jazz Theory and Improvisation II.

Recital Attendance Requirement
All music majors are expected to attend recitals throughout the duration of their degree program. All BM majors are
required to attend a minimum of 80 recitals. Music Studies and Music Education majors are required to attend a
minimum of 60 recitals. It is recommended that students attend an average of 10 to 15 recitals each term. Transfer
students will have the attendance requirement pro-rated according to their studio level placement, allowing for 10
recitals to be credited for every term waived.

Students should sign programs they attend and turn them in to the music office with their name and student I.D.
number on each program. The purpose of this requirement is to ensure that music students hear a variety of student,
faculty and other professional-level performances. Students should register for MUS 2010, Recital Attendance, in the
term in which they expect to complete the requirement. The course is graded S/U and is required for graduation.
Major Performing Ensembles
All students enrolled in applied music for 2 or 3 hours are required to concurrently enroll in a major ensemble appropriate for their performance medium. A list of approved major ensembles is provided on the music advising website.

- Upper division BM voice performance majors may take up to two semesters of opera as a major ensemble. Scholarship students may be required to enroll in additional ensembles.
- Upper division voice principals in the BS degree program in Music Education or the BA degree program in Music Studies (applied emphasis) may take up to one semester of opera as a major ensemble. Scholarship students may be required to enroll in additional ensembles.
- Students who elect to take applied music beyond their minimal degree requirements will have the option of enrolling in either choral ensembles or in opera. Scholarship students may be required to enroll in additional ensembles.

Minimum Grade for Music Courses
All music majors and minors must earn at least a C- in every music course required for their degree program. Music education students must earn at least C- in all required music, music education, and education courses. Music courses resulting in grades of D or F must be repeated with subsequent registrations. Sequel courses may not be taken until prerequisites are satisfied with appropriate grades or waivers.

- MUSIC PERFORMANCE (MUS) (CIP=50.0903)
  TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Requirements for the B.M. Degree in Performance (MPF), Acoustic & Electronic Composition (MUC), and Jazz Studies (MJP)

Prerequisites (State Mandated Common Prerequisites)
Transfer students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at a Florida community or state college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C-" is the minimum acceptable grade. If students are coming to the university from a community college, the following prerequisite courses will be accepted as meeting lower level requirements.

- MUT 1111 Music Theory
  or MUT 1121, 1122, 2126, or 2127
- MUT 1112 Music Theory
  or MUT 1121, 1122, 2126, or 2127
- MUT 2116 Music Theory
  or MUT 1121, 1122, 2126, or 2127
- MUT 2117 Music Theory
  or MUT 1121, 1122, 2126, or 2127
- MUT 1241 Aural Theory
  or MUT 1221, 1222, 2226, 2227, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277
- MUT 1242 Aural Theory
  or MUT 1221, 1222, 2226, 2227, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277
- MUT 2246 Advanced Aural Theory
  or MUT 1221, 1222, 2226, 2227, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277
- MUT 2247 Advanced Aural Theory
  or MUT 1221, 1222, 2226, 2227, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277
- MUN XXXX Chamber Music Ensemble, 4 semester hours
- MVX 1X1X Secondary Applied Music Courses, 2-4 semester hours
- MVX 2X2X Secondary Applied Music Courses, 2-4 semester hours
- Secondary Piano Proficiency by Examination
  or MVK 1111, 1112, and 2122
  or MVK 1111r, 1112r, 2121r, and 2121r
  or MVK 1211 and 2221

Electives: Music credits beyond those required may be used as program electives.
Core Requirements for Performance and Acoustic & Electronic Composition Concentrations

Music Theory (22 credit hours):
- MUT 1111 Music Theory I
- MUT 1112 Music Theory II
- MUT 1241 Aural Theory I
- MUT 1242 Aural Theory II
- MUT 2116 Music Theory III
- MUT 2117 Music Theory IV
- MUT 2246 Aural Theory III
- MUT 2247 Aural Theory IV
- MUT 4421 Eighteenth Century Practice
- MUT 4571 Twentieth Century Practice

Music History (8 credit hours):
- MUH 3300 Music History/Medieval and Renaissance
- MUH 3301 Music History/Baroque and Classical
- MUH 3302 Music History/Romantic and 20th Century

Music History Elective (3 credit hours):
Choose One:
- MUH 4058 Intercultural Music in the Twentieth Century
- MUH 4372 Representing the United States in Music
- MUH 4801 History of Jazz

Conducting (2 credit hours):
- MUG 3104 Basic Conducting

Senior Seminar (1 credit hours):
- MUS 4935 Music Senior Seminar

Recital Attendance (0 credit hours):
- MUS 2010 Recital Attendance

Major Ensemble (12 credit hours):
- Performance Majors — 8 credit hours
- Composition — 4 credit hours

All students enrolled in Applied Music for three (3) or two (2) credit hours are required to enroll in a Major Ensemble appropriate to their performing medium. A list of approved major ensembles is provided on the Music advising website.

Music Electives (0-13 credit hours)

Performance Concentration
- Voice performance majors must enroll in MUS 2201 for a total of 3 credits as part of their Music Electives.
- Voice performance majors are required to be competent at the beginning level of French, German, and Italian languages in addition to taking foreign language diction classes offered in the School of Music. Proficiency tests are administered by the Department of World Language Education. If needed, courses 1120 (4 credit hours) and 1120L (lab for 1 credit hour) in each language may be taken in the College of Arts and Sciences for up to 15 credit hours to meet the foreign language proficiency requirement.
- Upper division BM voice performance majors may take up to two semesters of opera as a major ensemble. Students who elect to take applied music beyond their minimal degree requirements will have the option of enrolling in either choral ensembles or in opera.
- Performance majors in piano are required to enroll in MVK 4640 for 4 credits as a part of the Music Electives.
- The following requirements for the piano pedagogy emphasis are to be taken as a part of the Music Electives: MVK 4640, MVK 4641

Recital Scheduling Procedures and Policies

JUNIOR RECITAL FOR BA AND BM DEGREES: A public recital (must be shared with another junior recital) will be given during the student’s junior year. The student should have achieved junior classification as defined by the university and should be enrolled at the 3000 level in applied music, which would normally occur during a student’s third year of study. Credit may be granted to transfer students for junior recitals completed at other institutions. This recital should have been completed during the student’s junior year at that institution and a request for recognition of that recital should be made in writing to the applied division coordinator. No studio teacher is under any obligation to accept these transfer recitals.

JUNIOR RECITAL FOR BS DEGREE IN MUSIC EDUCATION: A public recital will be given during the student’s last
year of applied music study. The student should have achieved junior classification as defined by the university and should be enrolled at the 3000 level in applied music. A recital performed at another institution will not satisfy graduation requirements for USF. The recital must be performed on the USF campus and the student must be enrolled in the studio of a USF faculty member during the term of said recital. Exceptions may be made by the Director of the School of Music when deemed appropriate.

SENIOR RECITAL FOR BM DEGREE: A public recital will be given during a student’s senior year. The student should have achieved senior classification as defined by the university and should be enrolled at the 4000 level in applied music, which would normally occur during a student’s fourth year of study. A senior recital performed at another institution will not satisfy graduation requirements for USF. The recital must be performed on the USF campus and the student must be enrolled in the studio of a USF faculty member during the term of said recital unless written permission to deviate from this policy is obtained from the School of Music Director.

A RECITAL APPROVAL FORM MUST BE COMPLETED FOLLOWING ALL RECITALS AND PLACED IN EACH MUSIC STUDENT’S ADVISING FOLDER IN ORDER FOR DEGREE CERTIFICATION PROCEDURES TO BE COMPLETED.

Core Requirements for Acoustic & Electronic Composition

ACADEMIC STUDIES (31 credit hours):
C- or better is the minimum grade for all course; no S grades.

Music Theory [Diagnostic Test administered at first class meeting]
MUT 1111, 1112, 2116, 2117, 4421, 4571 18

Aural Theory – 4 credit hours
MUT 1241, 1242, 2246, 2247

Music History
MUH 3300 Medieval and Renaissance ...............................................2
Prerequisite for MUH 3301 and MUH 3320
MUH 3301 Baroque and Classic .....................................................3
MUH 3302 Romantic through Contemporary ........................................3
Elective MUH 2020, 2051, 4058, MUH 4372 (satisfies EXIT-WI), MUH 4801 (0-3) *
[*0 credit if course taken to satisfy General Education or EXIT ............

Senior Seminar
MUS 4935 Music Senior Seminar (“S/U” grade only).............................1

APPLIED STUDIES (14 credit hours)
C- or better is the minimum grade for all course; no S grades.

Basic Conducting MUG 3104 [PR: MUT 1112.] 2

Applied Major (Studio) MV? 131X, 232X [2 terms-each level]...................8

Major Ensemble MUN 3XXX [concurrent registration with studio is required]..4

Recital Attendance MUS 2010 [*S/U” grade only] 0

MUSIC ELECTIVES (2 credit hours):
C- or better is the minimum grade for all course; no S grades.

Keyboard Skills [piano proficiency at Level 4 required by testing or course(s)]
MVK 1111, 1121, 2111, 2121 and other music courses

MUSIC COMPOSITION: 31 credit hours
C- or better is the minimum grade for all course; no S grades.

Acoustic Music
Freshman Composition & Instrumentation MUC 1211, 1212.................... (2+2) 4
Sophomore Composition & Instrumentation MUC 2221, 2222 ..................(2+2) 4
Junior Composition & Instrumentation MUC 3231, 3232 ...................... (2+2) 4
Senior Composition MUC 4241, Senior Recital/Project MUC 4950 ....... (2+2) 4

Electronic Music
Introduction to Electronic Music MUC 2301 (0-3)
(prerequisite for EM courses and FKL General Education Fine Arts course)
Analog Synthesis MUC 3401, 3402 (3+3) 6
Digital Synthesis MUC 3441, 3442 (3+3) 6
Real-Time Performance MUC 4403 3

Senior Recital Requirement
The second semester of the senior year is the only semester in the composition sequence that does not require the student to be in a composition class. Instead, students are required to register for Senior Recital (2 credits), which will have a scheduled meeting time (1 hour a week) and syllabus. This meeting time will be student-directed, but one or more composition faculty will be available to help answer questions at the students’ request.

The Senior Recital Requirement consists of the following:
1. Portfolio Presentation (30 percent of final grade)
2. Recital (30 percent of final grade)
3. Participation in the Senior Project Concert (15 percent of final grade)
4. Senior Presentation in Composition Seminar (12 percent of final grade)
5. Composers Orchestra composition (13 percent of final grade)
6. Continued participation in Composition Seminar and Notation Emporium

Portfolio
Portfolios must be presented in final form by Monday, 5:00 PM, the last week of classes. Students will consult with faculty throughout the semester on assembling and fine-tuning the material. Faculty will review the portfolio by the time of final jury (final exam week). The portfolio will consist of the following:
1. A digital archive of all of the student’s acoustic and electronic projects created over the 8-semester MUC sequence (this can be presented on the web or in physical copy, e.g. DVD, flash drive, etc.)
2. A database of performances, performers, etc. (hard copy)
3. 3 to 5 scores individually bound and professionally presented (at least one of these scores needs to be for both acoustic instruments and electronic media)
4. A curriculum vitae (hard copy)
5. A 300-word artist’s statement (hard copy)

Recital
Seniors are responsible for scheduling, preparing for and presenting a 60-minute concert of their music during their final semester. This recital must take place during the semester that the student is registered for Senior Recital, and it is recommended to be before week 15 to allow time for preparing the video for the portfolio. It is expected to be professionally produced in one of the USF SOM halls, most likely in the Barness Recital Hall. The programming must include works for acoustic instruments, electronic media and work that combines the two. The recital will be assessed on quality of preparation, presentation and professional effectiveness (publicity, draw, archiving, etc.).

Senior Project Concert
Senior composition majors who are registered for Senior Recital will collaborate on and present a concert during the same semester. It will feature music and performances by the seniors primarily, but can involve other performers as well. Unlike the solo senior recital concert, it is required that this concert be off campus. Students have a scheduled meeting time that they can use each week for this purpose. This concert will be assessed on quality of preparation, presentation and professional effectiveness (publicity, draw, archiving, etc.).

Senior Presentation in Composition Seminar
Each senior will give 30-50 minute presentation on their music and issues surrounding it. This can be as a preview to their senior recital. Presentations must be scheduled by week 4, and no presentation will be scheduled after week 14. The presentation will be assessed on content as well as professionalism of presentation.

Composers’ Orchestra Composition
Each senior will be required to compose and program a piece written especially for the Composers’ Orchestra, an ad-hoc group of performing composition majors assembled for this purpose. The performance may take place in the Senior Recital or Senior Project concert, but it needs to be performed by week 15 at the latest. This final score and recording will be provided with the portfolio in addition to the 3-5 scores of other work.

Composition Seminar and Notation Emporium
Seniors in their final semester are expected to participate in the weekly seminar and emporium. Attendance is required and excessive absences or late arrivals can affect the Senior Recital final grade. (See attendance policy)

The Recital Approval form (available on music advisor’s door) must be completed and returned to the advisor.
Core Requirements for Jazz Studies

Music Theory (26 credit hours):
- MUT 1111 Music Theory I
- MUT 1112 Music Theory II
- MUT 1241 Aural Theory I
- MUT 1242 Aural Theory II
- MUT 2116 Music Theory III
- MUT 2117 Music Theory IV
- MUT 2246 Aural Theory III
- MUT 2247 Aural Theory IV
- MUT 2641 Jazz Theory and Improvisation I
- MUT 2642 Jazz Theory and Improvisation II
- MUT 3663 Advanced Jazz Improvisation I
- MUT 3664 Advanced Jazz Improvisation II

Music History (11 credit hours):
- MUH 3300 Music History/Medieval and Renaissance
- MUH 3301 Music History/Baroque and Classical
- MUH 3302 Music History/Romantic and 20th Century
- MUH 4801 History of Jazz

Conducting (2 credit hours):
- MUG 3104 Basic Conducting

Senior Seminar (1 credit hours):
- MUS 4935 Music Senior Seminar

Recital Attendance (0 credit hours):
- MUS 2010 Recital Attendance

Ensemble:
- Performance - All students enrolled in Applied Music for two (2) or three (3) credit hours are required to enroll in a Major Ensemble appropriate for their performing medium. A list of approved major ensembles is provided on the Music advising website.

Jazz Studies Concentration (minimum 24 credit hours):
- Applied music (major) through the 4000 level

- **MUSIC EDUCATION (MUE) (CIP = 13.1312)**

TOTAL PROGRAM HOURS = 134 CREDIT HOURS

Requirements for the B.S. Degree in Music Education

Prerequisites (State Mandated Common Prerequisites)
- Transfer students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at a Florida College System institution, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C-” is the minimum acceptable grade. If students are coming to the university from a Florida College System institution, the following prerequisite courses will be accepted as meeting lower level requirements.

**Note:** The following prerequisites are required for all education majors. Students should consult their intended majors (listed under “Departments and Programs,” below) for a list of other specific course prerequisites and requirements beyond these listed below:

- EDF X005 Introduction to the Teaching Profession 3
- EDG X085 Introduction to Diversity for Educators 3
- EME X040 Introduction to Technology for Educators 3

MUT x111 Music Theory or MUT x121, x122, x126, or x127
MUT x112 Music Theory or MUT x121, x122, x126, or x127
MUT x116 Music Theory or MUT x121, x122, x126, or x127
MUT 2117 Music Theory or MUT 1121, 1122, 2126, or 2127
MUT x241 Aural Theory or MUT x221, x222, x226, and x227 or MUT x261, x262, x266, and x267 or MUT x271, x272, x276, and x277
MUT x242 Aural Theory or MUT x221, x222, x226, and x227 or MUT x261, x262, x266, and x267 or MUT x271, x272, x276, and x277
MUT x246 Advanced Aural Theory or MUT x221, x222, x226, and x227 or MUT x261, x262, x266, and x267 or MUT x271, x272, x276, and x277
MUT 2247  Advanced Aural Theory or MUT 1221, 1222, 2226, 2227, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277
MUN XXXX 4 semester hours
MVx X1X1 Secondary Applied Music Courses, 2-4 semester hours
MVx X2X2 Secondary Applied Music Courses, 2-4 semester hours
Secondary Piano Proficiency by Examination or MVK x111, x112, x121 and x122 or MVK x111r, x112r, x121r or MVK x211 and x221
Electives: Music credits beyond those required may be used as program electives.
This is an official state teacher education program. All music education students must demonstrate teaching proficiency upon completion of MUE 2090 in order to continue in the program. Students remain coded as pre-music education (MPE) until all degree admission requirements have been met.
In order to take advanced coursework in the music education program, students must present evidence that they have attained an average of B for three aural theory courses (MUT 1241, 1242, 2246, 2247) and have maintained an overall USF GPA of 3.0. These standards are prerequisites for MUE 3424, 3425, 4311, 4331, 4332, 4936, and 4940. Evidence can be in the form of either an updated USF transcript or a current degree audit report. This information must be presented to the academic advisor before the end of the drop/add week in order to enroll in any of these seven music education courses.

ALL FKL courses, lower-level education courses, and examinations required by the College of Education must be completed for official admission to the BS degree program in music education. The FTCE (Florida Teacher Certification Exam), which includes the GKT (General Knowledge Test), the PED (Professional Education Exam), and the SAE (Subject Area Examination in Music) must be taken before entering the internship and successfully completed for the degree and for Florida teacher certification. A copy of the GKT results must be given by the student to the College of Education Internship Office and the Music Advisor immediately upon receipt.

Gordon Rule Communication requirements (12 credit hours in ENC 1101, 1102, and two other Gordon writing courses) and Computation requirements (6 credit hours) are satisfied through FKL courses.

The minimum acceptable grade for music, music education, education, and Gordon courses is "C-." The GPA in both specialization courses (music) and professional education courses (music education and education) must be 2.5 in order to graduate.

MUSIC (51 credit hours)
Music Theory
MUT 1111, 1112, 2116
(MUT 1112 is the prerequisite for MUG 3104 and MUH 3300)
Aural Theory
MUT 1241, 1242, 2246
Keyboard Skills
MVK 1111, 1121, 2111, 2121 - Proficiency required by testing or course(s)
Conducting
MUG 3104 Basic
MUG 3108 Advanced Conducting
Music History
MUH 2XXX American Roots or Non-Western Music (see FKL Fine Arts)
MUH 3300 Medieval and Renaissance (PR for MUH 3301 and MUH 3302)
MUH 3301 Baroque and Classic
MUH 3302 Romantic through Contemporary
Music Electives
Applied Principal (Studio) (2 terms each level)
MVx 131X, 232X, 333X (culminating in junior recital)
MUN 3XXX Major Ensemble (concurrent registration with studio)
Upper division voice principals may take up to one semester of opera as a major ensemble.
MUS 2101 Recital Attendance (attendance at minimum 60 programs)

MUSIC EDUCATION (28 credit hours) & EDUCATION (15 credit hours)
Methods courses include:
1. curriculum and instruction
2. human development and learning,
3. classroom management,
4. assessment through measurements,
5. teaching exceptional students with varied learning styles and achievement levels.
### Professional Education Courses
- **15 credit hours** - All must be completed with a C- or better. No "S" grades.
  - EDF X005 Introduction to the Teaching Profession 3
  - EDG 2085 Introduction to Diversity for Educators 3
  - EME 2040 Introduction to Technology for Educators 3
  - TSL 4324 ESOL Competencies and Strategies 3
  - RED 4310 Reading and Learning to Read 3

### Music Education
- **28 credit hours** - All must be completed with a C- or better. No "S" grades.
  - MUE 2090 Foundations of Music Education 3
  - MUE 3421 Choral Techniques 1
  - MUE 3422 Wind Techniques 1
  - MUE 3423 String Techniques 1
  - MUE 3475 Percussions Techniques or MUN 3443 Percussion Ensemble 1
  - MUE 3414 Creative Performance Chamber Ensemble 1
  - MUE 3401 Progressive Music Education Methods 1 3
  - MUE 3425 Progressive Music Education Methods 2 3
  - MUE 4311 General Music Methods (includes pre-internship) 3
  - MUE 4331 Choral Methods or MUE 4332 Instrumental Methods (includes pre-internship) 3
  - MUE 4936 Senior Seminar (taken with Internship) 3
  - MUE 4940 Internship [Register for 6 credit hours. 3 hours apply to EXIT Capstone] 3

### The Florida Teacher Certification Exam (FTCE)
The exam includes the General Knowledge Test (GKT), the Professional Education Exam (PEd), and the Subject Area Exam (SAE in Music). The GKT is taken separately. However, the PEd and the SAE can be taken together. Observe deadline notes below!
- **If you are interning in the Fall semester**, you must submit all passing scores of the required General Knowledge Test to the Internship Office and to the Music Advisor no later than 5:00 pm on the Friday after the preceding Spring commencement date in order to be guaranteed certification for degree completion.
- **If you are interning in the Spring semester**, you must submit all passing scores of the required General Knowledge Test to the Internship Office and to the Music Advisor no later than 5:00 pm on the Friday after the preceding Summer commencement date in order to be guaranteed certification for degree completion.
- **Warning**: Failure to adhere to the guidelines above will result in your inability to intern during the semester for which you have applied.
- **Copies of passing scores** of the Professional Education Exam and the Subject Area Exam must be submitted to the Internship Office and to the Music Advisor. These scores must be submitted no later than 5:00 pm on the Friday following the graduation ceremony during the semester in which you are interning.

### MUSIC STUDIES (MSU) (CIP = 50.999)
**TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

#### Requirements for the B.A. Degree in Music Studies
The B.A. degree in Music Studies is part of the Provost's Scholars Program (PSP). This is a program in which qualified students who enter USF directly from high school with 18 or more credits will be offered the opportunity to complete their undergraduate education in 3 years. Each selected student will be provided preferred registration privileges so that critical courses are not closed when they register. They will be given summer scholarships if they need to take summer classes and will be given scholarships to help them participate in study abroad programs. PSP students will live in the Honors College Living/Learning Community year 1. Students will be offered the assistance of faculty or off campus mentors, depending upon career goals and will be encouraged to use the fourth year for graduate study here at USF. Participants will not need to take larger academic loads and can take advantage of all that USF has to offer.

#### Prerequisites (State Mandated Common Prerequisites)
Transfer students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at a Florida College System institution, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C-” is the minimum acceptable grade. If students are coming to the university from the Florida College System institution, the following prerequisite courses will be accepted as meeting lower level requirements.
- MUT X111 Music Theory or MUT X121, X122, X126, or X127
- MUT X112 Music Theory or MUT X121, X122, X126, or X127
- MUT X116 Music Theory or MUT X121, X122, X126, or X127
- MUT X117 Music Theory or MUT X121, X122, X126, or X127
MUT X241 Aural Theory or MUT X221, X222, X226, X227, X261, X266, X267, X271, X272, X276, or X277
MUT X242 Aural Theory or MUT X221, X222, X226, X227, X261, X266, X267, X271, X272, X276, or X277
MUT X246 Advanced Aural Theory or MUT X221, X222, X226, X227, X261, X266, X267, X271, X272, X276, or X277
MUT X247 Advanced Aural Theory or MUT X221, X222, X226, X227, X261, X266, X267, X271, X272, X276, or X277
MUN XXXX 4 semester hours
MVX XX1X Secondary Applied Music Courses, 2-4 semester hours
MVX XX2X Secondary Applied Music Courses, 2-4 semester hours
Secondary Piano Proficiency by Examination or MVK X111, X112, and X122 or MVK X111r, X112r, X121r, and X121r or MVK X211 and X221
Electives: Music credits beyond those required may be used as program electives.

MUSIC CORE

**ACADEMIC COURSES:** 20 credit hours [All must be C- or better. No “S” grades.]

Music Theory [Diagnostic Test administered at first class meeting]
MUT 1111, 1112, 2116* [Note: MUT 1112 is PR for MUH 3300.] ........................................ 9

Aural Theory
MUT 1241, 1242, 2246* .................................................................................. 3
*Jazz Theory
MUT 2641 and 2642 may substitute for MUT 2116 and 2246................................. 4

Music History
MUH 3300 Medieval and Renaissance [PR for MUH 3301 and 3302] ......................... 2

**Choose 2 of the following 3 courses:** ............................................................... 6
MUH 3301 Baroque and Classic ........................................................................ 3
MUH 3302 Romantic through Contemporary .................................................. 3
MUH 4801 History of Jazz [recommended for jazz students] .......................... 3

APPLIED COURSES: 12 credit hours [All must be C- or better. No “S” grades.]

Applied Major (Studio)
MV? 131X, 232X [2 terms–each level] ................................................................. 8

Major Ensemble
MUN 3XXX [concurrent registration with studio is required] .......................... 4

Recital Attendance
MUS 2010 [“S/U” grade only] .............................................................................. 0

MUSIC ELECTIVES: 8 credit hours [All must be C- or better. No “S” grades.]

General Education Fine Arts & Exit recommended music courses also apply here.
Keyboard Skills [piano proficiency at Level 2 required by testing or course(s)]
Other music courses which are not used for Music Emphasis
MUT 3353/3354 and 3663/3664 are recommended for jazz students.

MUSIC EMPHASIS: 6 credit hours [All must be C- or better. No “S” grades.]

Choose only one:
1. ACADEMIC STUDIES .................................................................................. 6
   [cannot share courses used for FKL or Music Electives]
   Choose two of the following:
   MUC 2301 MUH 4372
   MUH 2020 MUH 4058
   MUH 2051 MUT 2117/2247
   MUH 3016 MUT 4421
   MUL 3012 MUT 4571

2. APPLIED STUDIES ..................................................................................... 6
   Completion of Junior Level (MV? 333X) & Junior Recital
   Two additional terms of major ensemble

The Faculty
The music faculty is made up of outstanding musicians and scholars whose talents and achievements provide a unique educational resource for all music students. Faculty ensembles such as the Faculty Chamber Players and the Faculty Jazz Combo provide an important musical contribution to campus and Tampa area cultural life, and many music
faculty perform in professional music ensembles across west central Florida. Faculty scholars are active researchers presenting and publishing their works nationally and internationally.

Student Organizations

The music organizations of Sigma Alpha Iota, Phi Mu Alpha Sinfonia, and Pi Kappa Lambda, the honorary music organization, maintain active chapters in the School of Music. Additionally, chapters of the National Association for Music Education Collegiate, American Choral Directors Association, Kappa Psi Band Fraternity, and the International Association for Jazz Education provide an important liaison with other professional musicians and teachers.

Visiting Scholars, Artists, and Artists-in-Residence

The School of Music utilizes guest composers, conductors, scholars, and performing musicians to enhance its offerings in terms of teaching faculty, forum appearances, and the conducting of musical programs, symposia, research, and clinics. Lists of distinguished guests are published on our website.

Financial Aid

Scholarship and Talent Award Guidelines

The School of Music offers a variety of financial aid programs to assist talented musicians in their musical studies. Two types of awards – Scholarships and Talent Awards – are in place, each with its own set of criteria. Scholarship awards will be automatically renewed every year (four years for entering Freshmen or until the anticipated graduation date of transfer students) upon the request of the student and maintenance of the standards (described below) established by the School of Music. Talent Awards must be renewed every semester via approval of the ensemble director. Awards typically are made on the basis of excellence in musicianship and/or personnel needs in a particular performance area. Financial assistance programs include up to four-year scholarship commitments and/or per-semester talent awards. All entering transfer and returning students intending to participate in a major ensemble are eligible to apply and audition for a financial award.

1. The audition committees will make recommendations to the appropriate ensemble director. These recommendations may include a suggested award amount and/or simply a designation as to the eligibility level of the student.
2. Recommendations on the amount of the award given will be made by the appropriate ensemble director to the School of Music Scholarship Committee.
3. The Director of the School of Music makes final decisions, based upon a variety of factors including: available budget, proven ability of student, ensemble/school needs, potential to succeed, letters of recommendation, and academic records.

Talent Award

The student must enroll for credit and perform satisfactorily in the ensemble awarding the money. The student is not required to study in an applied studio, to be enrolled for 12 credit hours, to meet minimum academic standards or to be pursuing a Music major. All talent award recipients must request renewal directly from the ensemble director granting the award each semester. The director may request the student to re-audition or may choose not to renew the award.

Scholarship Award

- Student must be pursuing a music major
- Student must maintain a minimum of 12 semester hours of course load in each semester
- Student must maintain a GPA of 2.5 overall and 3.0 in all music courses
- Student must enroll for credit in an applied music studio appropriate to the performing instrument
- Student must enroll for credit in the ensemble(s) appropriate to the performing instrument
- Students are often required to perform in two ensembles, depending upon the needs of the ensemble program.

NOTE: All music students on scholarship will be required to perform up to two services per semester in reading/performing student composer projects as part of the expectations to maintain their music financial aid. These two services are not inclusive of rehearsals to prepare the student works should public performance be a part of the required services. The Coordinator of the Composition program or his/her designee will organize administration of the composition program and the student participation in required services.

Continuing Students Scholarship: All scholarship students who wish to continue to receive their awards must fill out a Continuing Scholarship Application Form in the Spring semester. Failure to do so may result in the reallocation of the scholarship to other students. Each student must also submit a performance evaluation sheet from their applied teacher and major ensemble director along with their request for renewal.

Duration of Awards: Scholarship awards are given to incoming freshmen for eight semesters. Length of award to transfer students will be determined after an evaluation of their transcript has projected a graduation date. Students may not continue to renew their scholarship beyond this point. They may, however, apply to an ensemble director for a talent award after this time. Talent awards may be renewed as many times as are deemed appropriate by the ensemble director.
Revocation of Awards
Scholarship awards may be revoked if students
 Fail to maintain full-time status (12 credit hours)
 Fail to maintain required GPA
 Fail to participate in appropriate ensembles (as determined by applied teachers and ensemble directors)
 Switch major area of study outside of music
 Fail to perform satisfactorily in applied lessons or major ensemble(s)
 Fail to maintain satisfactory progress in academic studies in music

Repayment of award will be sought from any student who drops out of school, drops out of ensemble/applied music participation, or fails to maintain 12 credit hours during a semester in which they have received an award.

Interning Music Education Students
A student, during his/her interning semester, may continue to receive scholarship monies (even though they may be unable to comply with the ensemble requirement) upon approval by the Director of the School of Music. The Director will, as a matter of course, seek the recommendation of the applied instructor and the Coordinator of Music Education.

Music and Music Education Faculty

SCHOOL OF THEATRE AND DANCE
The dance program in the School of Theatre and Dance offers professional preparation through a curriculum of study within two degree options: B.F.A. in Dance and B.A. in Dance. There is an expressed commitment to the development and production of original creative works as extensions of studio/classroom experiences, of faculty research, and in interaction with guest artists.

The presentation of dance in concert is essential to the educational mission, and provides students and the community with numerous opportunities for expanding aesthetic experiences.

Through intensive study in dance technique, creative studio studies and dance theory, students are prepared for careers in performance, choreography, and education. Additionally, these degree programs may help prepare students for graduate work in Dance Sciences/Medicine, Dance Therapy, Arts Management, Performance, Choreography, or Interdisciplinary Studies.

Admission to the Dance program is contingent upon acceptance by the university and successful completion of a placement audition. Students must complete the audition prior to Orientation and registration for Dance courses. Prospective majors must contact the School of Theatre and Dance for audition dates prior to being permitted to register for classes. Acceptance into major technique classes is by faculty audition. Acceptance into each of the degree programs (B.F.A. and B.A.) requires acceptable technical proficiency, academic standards commensurate with USF guidelines, and recommendation of the faculty.

USF Dance in Paris Program
In May of 2007, the Dance program at USF expanded the parameters of its curriculum by offering its students a program of study in Paris. This four-week course will present an opportunity for dance majors to expand their historical, cultural and performance-based knowledge through exposure to the rich tradition of dance in the French capital.

The goal of the USF Dance in Paris Program is to enable students to expand upon information they have already gleaned from several courses required of dance majors: history, choreography, and technique.

Led by USF faculty members, this four-week intensive course in Paris will also feature studio classes taught by Parisian and other European dancers and choreographers of distinction, thereby exposing students to the contemporary Continental dance lexicon.

As Paris is the cradle of Western dance civilization, students will visit the sites of some of history’s greatest dance events, including The Paris Opera, the Theatre de Chaillot and Versailles. Further, students will be led to reevaluate their notions of traditional dance-making by embarking upon projects involving site-specific work in the city’s many museums and music venues as well as those areas unique to the everyday life of the city, such as its cafes and the metro. Students will also attend performances by important dance artists working in Paris or visiting from elsewhere, thereby expanding their performance vocabulary.
• DANCE (DAN) (CIP = 50.0301 – Track 2 of 2)

TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Prerequisites (State Mandated Common Prerequisites)

The College of The Arts encourages students to complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet Foundations of Knowledge and Learning Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students are encouraged to complete the following required courses and/or electives (if available) during the program of study at the community college. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade. If students are coming to the university from a Florida College System institution, the following prerequisite courses will be accepted as meeting lower level requirements.

Prerequisites for the B.F.A. in Dance

Any 24 credit hours from the following 30 hours will be accepted toward the major.

DAN X610 or DAN X600 3 credit hours
DAN X611 or DAN X601 3 credit hours
DAA X610 2 credit hours
DAA X611 2 credit hours
DAA X680 2 credit hours
or any lower level Repertory course in the X400-X400 series up to 4 credit hours
DAA X681 2 credit hours
or any lower level Repertory course in the X400-X400 series up to 4 credit hours
DAA X200-X209 8 credit hours
up to 8 credit hours of any lower-level Ballet Technique courses within the X200-X209 taxonomy
DAA X100-X109 8 credit hours
up to 8 credit hours of any lower-level Modern Technique courses within the X100-X109 taxonomy

Although credit or elective credit toward the major will be given for these courses, placement in upper-level technique classes will continue to be based on individual proficiency. Other technique courses in other styles of dance may be accepted toward the major on a case-by-case basis, at the discretion of the University. Transfer dance credits must be evaluated by faculty and the Dance advisor at time of entrance.

Requirements for the Major in Dance (B.F.A.)

The B.F.A. in Dance (Ballet or Modern concentrations) offers professional preparation, which includes extensive study in Studio Technique, Choreographic Studies, and Dance Theory. The focus of this degree is the development of dancers who will enter the professional world of dance/arts as performers and choreographers. Beyond the expectations for continuing opportunities for performance, students selecting the B.F.A. will develop and present solo and group senior choreographic projects.

The B.F.A. is a limited access program. Students must participate in a selective admissions procedure. At the end of their third semester, students will be assessed by Dance faculty to determine eligibility. Dancers must continue to take technique courses throughout their degree program.

Modern Dance Concentration (DAM)

Required Courses (72 total major credit hours):

Studio Technique (28 credit hours):

DAA 3209 Ballet III
DAA 3109 Modern III
DAA 4110 Modern Dance IV
DAA 3395 World Dance Topics
Five credit hours Elective Dance Technique

Creative Studio (17 credit hours)

DAA 3624 Dance Improvisation
DAA 3614 Choreography I
DAA 3615 Choreography II
DAA 4616 Choreography III
DAA 4617 Choreography IV
DAA 3686 Junior Performance Project*
DAA 4687/3654 Performance/Repertory I*
DAA 4694 Senior Choreographic Project
*Concurrent enrollment in Dance Technique

**Dance Theory (27 credit hours):**
- DAN 2160 Entry Seminar
- DAN 3614 Music for Dance
- DAN 3615 Music for Dance II
- DAN 4434 Laban Movement Analysis
- DAN 3714 Dance Kinesiology
- DAN 4134 Ballet History (WRIN)
- DAN 4135 20th Century Dance (CPST)
- DAE 4340 Dance Pedagogy: Secondary Curriculum and Methods
- DAN 4180 Dance Senior Seminar
- TPA 2211/2291L Introduction to Technical Theatre II/ Technical Theatre Lab II

**Ballet Concentration (DAB)**

**Required Courses (74 total major credit hours):**

**Studio Technique (30 credit hours):**
- DAA 3209 Ballet III
- DAA 4211 Ballet IV
- DAA 3294 Ballet Variations
- DAA 3109 Modern III
- DAA 3395 World Dance

Three credit hours Elective Dance Technique

**Creative Studio Studies (17 credit hours):**
- DAA 3624 Dance Improvisation
- DAA 3614 Choreography I
- DAA 3615 Choreography II
- DAA 4616 Choreography III
- DAA 4617 Choreography IV
- DAA 3686 Junior Performance Project*
- DAA 4687/3654 Performance/Repertory I*
- DAA 4694 Senior Choreographic Project

*Concurrent enrollment in Dance Technique

**Dance Theory (27 credit hours):**
- DAN 2160 Entry Seminar
- DAN 3614 Music for Dance I
- DAN 3615 Music for Dance II
- DAN 4434 Laban Movement Analysis
- DAN 3714 Dance Kinesiology
- DAN 4134 Ballet History (WRIN)
- DAN 4135 20th Century Dance (CPST)
- DAE 4340 Dance Pedagogy: Secondary Curriculum and Methods
- DAN 4180 Dance Senior Seminar
- TPA 2211/2291L Introduction to Technical Theatre II/ Technical Theatre Lab II

**• DANCE (DAN) (CIP = 50.0301) (Track 1 of 2)**

**TOTAL PROGRAM HOURS = 120 CREDIT HOURS**

**Prerequisites (State Mandated Common Prerequisites)**

The College of The Arts encourages students to complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet Foundations of Knowledge and Learning Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students are encouraged to complete the following required courses and/or electives (if available) during the program of study at the community college. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade. If students are coming to the university from a Florida College System institution, the following prerequisite courses will be accepted as meeting lower level requirements.
Prerequisites for the B.A. in Dance

DAN X603 or DAN X610 2 credit hours
TPA X200 or TPA X223 or TPA X232 3 credit hours
DAA X200-X209 9 credit hours
   up to 10 credit hours of any lower-level Ballet Technique courses within the X200-X209 taxonomy
DAA X100-X109 9 credit hours
   up to 10 credit hours of any lower level-Modern Technique courses within the X100-X109 taxonomy

Although credit or elective credit toward the major will be given for these courses, placement in upper-level technique classes will continue to be based on individual proficiency. Other technique courses in other styles of dance may be accepted toward the major on a case-by-case basis at the discretion of the university. Transfer dance credits must be evaluated by faculty and dance advisor at time of entrance.

Requirements for the Major in Dance (B.A.)

The B.A. in Dance is a limited access program and is designed to provide students with a comprehensive core of study in Studio Technique, Choreographic Studies, and Dance Theory. The focus of this degree is to enable the student to combine dance with another area of interest and encourage the development of an individualized program of study through the selection of general education requirements as well as a focused selection of elective courses. The selection of electives should be designed to provide each student with the maximum value of a liberal arts education within a focused area of study. A student with additional interest in another field (e.g., African Studies, Anthropology, Communications, Education, History, Psychology, Religious Studies, Theatre, Women’s Studies, etc.) should complete focused study in that area along with the core of study in dance. Each student is required to develop a final independent project incorporating dance with his or her focused study. Dance students must continue to take at least one technique course each semester. At the end of the third semester the faculty will determine if appropriate progression has been made for continuation in the B.A. Dance major.

Dance Studies Concentration (DAS)

Required Courses (72 total major credit hours):

Studio Technique (19 credit hours):

DAA 3108 Modern Dance II
DAA 3214 Ballet II
DAA 3109 Modern Dance III or DAA 3209 Ballet III
DAA 3395 World Dance

Creative Studio Studies (13 credit hours):

DAA 3624 Dance Improvisation
DAA 3614 Choreography I
DAA 3615 Choreography II
DAA 4616 Choreography III
DAA 4617 Choreography IV
DAA 3686 Junior Performance Project*
DAA 4687/3654 Performance/Repertory I*
DAN 4906 Directed Study (Independent Research Project)

*Concurrent enrollment in Dance Technique required

Dance Theory (23 credit hours):

DAN 2160 Entry Seminar
DAN 3584 Technical Theatre in Dance or TPA2211/2291L Introduction to Technical Theatre II/
   Technical Theatre Lab II
DAN 3614 Music for Dance
DAN 3615 Music for Dance II
DAN 3714 Dance Kinesiology
DAN 4134 Ballet History (WRIN)
DAN 4135 20th Century Dance (CPST)
DAN 4162 Research in Dance
DAN 4180 Dance Senior Seminar

XXX XXXXX Focused Electives
Requirements for the Minor in Dance (DAN)

The Dance Minor is designed to provide students with a scope of experiences in dance that include studio technique, creative studio studies and dance theory. The student selecting a Dance Minor should arrange to meet with the academic advisor in dance prior to enrolling for classes.

Required Courses (24 total credit hours):

**Studio Technique (10 credit hours):**
Select 10 credits hours from the following list:
- DAA 2204 Ballet I
- DAA 3214 Ballet II
- DAA 3209 Ballet III
- DAA 4211 Ballet IV
- DAA 2104 Modern Dance I
- DAA 3108 Modern Dance II
- DAA 3109 Modern Dance III
- DAA 4110 Modern Dance IV
- DAA 2504 Jazz Dance
- DAA 4930 Special Topics in Dance

Studio Dance courses may be repeated once toward the Dance Minor.

**Creative Studio Studies (4 credit hours):**
Select 4 credits hours from the following list:
- DAA 3624 Dance Improvisation
- DAA 3614 Choreography I*
- DAA 3615 Choreography II*

*Music for Dance is a prerequisite for Choreography and instructor approval is required.

**Dance Theory (6 credit hours):**
Select 6 credits hours from the following list:
- DAN 2100 Introduction to Dance
- DAN 4134 Ballet History
- DAN 4135 20th Century Dance

**Dance Electives (4 credit hours):**

Critiques
1. All students will be evaluated periodically by the faculty and critiqued each semester and will participate in progress conferences with the faculty.
2. If a student evidences deficiency in some area or in continuing progress toward the degree, the student may be placed on probation within the Dance program.
3. Failure to make satisfactory progress after being placed on probation shall constitute grounds for program recommendation to drop and discontinue the major.

**Minimum Grade for Dance Courses**
A student must receive a C grade or better in required courses for Dance majors. Should a student fail to do so, the course(s) in which the student receives D or F grades must be repeated and a C grade or better earned.

The student choosing a Dance minor must achieve a grade of C or better in all courses applied to the minor in Dance.

**Additional Standards**
In addition to meeting the specific requirements and standards discussed above, the student and advisor will periodically evaluate the student’s general progress. Students are required to meet with the Academic Advisor in Dance each semester. An unsatisfactory rating in one or more of the following areas could place the student on probation. A student on probation is given a specific amount of time to achieve a satisfactory rating before being dropped from the major program. The criteria include:
1. Appropriate academic progress.
2. Adequate technical skills and adaptability.
3. B average in major studio classes.
4. Physical conditioning that includes: nutrition, flexibility, strength, and healthful weight management necessary to facilitate safe technical and artistic expression.
5. Class probation and program probation require review, i.e., reinstatement in good standing or recommendation to drop major.
Visiting Artists and Artists-in-Residence

The Theatre program at USF actively promotes guest artists on campus. A representative list of artists includes Maria Aitken, Peter Barkworth, Bill Bryden, Daniel Chumley, Russel Craig, Matthew Francis, George Froshcer, Christopher Fry, John and Lisel Gale, Patrick Garland, Ronald Harwood, Jeff Jones, Rachel Kavanaugh, Sam Mendes, Bob Moody, Eric Overmyer, Louise Page, Estelle Parsons, Olga Petrovna, Roni Pinkovitch, Denis Quillely, Gerlind Reinshagen, L. Kenneth Richardson, Lord Brian Rix, James Roose-Evans, Dorothy Tutin, Robert Wierzel, and Jose Yglesias. These and others have helped the School develop relationships with UMO, London’s West End, The Royal National Theatre, The Royal Shakespeare Company, The Actors’ Studio, Broadway, San Francisco Mime Troupe, Free Theatre of Munich, The Chichester Festival, The Edinburgh Festival, The Spoleto Festival, Yale Repertory Theatre, and Habimah Theatre in Israel.

THEATRE (TAR) (CIP = 50.0501) (Track 2 of 2)
TOTAL PROGRAM HOURS = 120 CREDIT HOURS

Requirements for the Major in Theatre (B.A.)

Prerequisites (State Mandated Common Prerequisites)

For students transferring from a Florida College System institution: Students are encouraged to complete the A.A. degree at a Florida College System institution. Some courses required for the major may also meet Foundations of Knowledge and Learning Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the courses below recommended.

Students need not have completed a concentration of courses in theatre in order to consider a Theatre major at USF. However, admission to the upper-level Theatre Performance program is by audition and admission to the upper-level Design sequence is by portfolio review. If the student does not succeed in passing the audition or portfolio review...
certain Theatre program requirements may have to be repeated until successful completion of the audition or portfolio review can be achieved.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the university. If these courses are not taken at a Florida College System institution, they must be completed before the degree is granted. Unless stated otherwise, a grade of C is the minimum acceptable grade. A C average in the major is required for graduation.

If students are coming to the university from a Florida College System institution, the following prerequisite courses will be accepted as meeting lower level requirements.

- THE X000 Any introductory course from THE X001-X035 3 credit hours
- THE X300 or THE X305 3 credit hours
- THE X925 1 credit hour
- TPA X290 1 credit hour
- TPA X200 or TPA X210 3 credit hours
- TPP X190 or TPP X110 3 credit hours
- Any combination THE, TPA and TPP course 9 credit hours

Students may choose one of three areas for the B.A. degree: Performance, Design or Theatre Arts. Common to all is the following core, normally taken in the years indicated:

**Required Core Curriculum (33 credit hours):**

**First Year (14 credit hours):**
- THE 2020 Introduction to Theatre
- TPP 2110 Voice-Body Improvisation
- TPA 2200 Introduction to Technical Theatre I
- TPA 2290L Introduction to Technical Theatre Lab I
- TPA 2211 Introduction to Technical Theatre II or TPA 2220 Introduction to Technical Theatre III
- TPA 2291L Introduction to Technical Theatre Lab II or TPA 2220L Introduction to Technical Theatre Lab III

**Second Year (8 credit hours):**
- THE 2305 Script Analysis
- THE 3110 Theatre History I or THE 3111 Theatre History II
- TPA 2292 Production Involvement I
- TPP 2190 Studio Theatre Performance I

**Third Year (8 credit hours):**

Choose two Theatre History/Literature Courses from the following list:
- THE 3110 Theatre History I
- THE 3111 Theatre History II
- THE 4174 New British Theatre and Drama
- THE 4180 Theatre Origins
- THE 4330 Shakespeare for the Theatre
- THE 4401 American Drama
- THE 4434 Caribbean Theatre
- THE 4480 Drama Special Topics
- TPA 4293 Production Involvement II
- TPP 4193 Studio Performance II

Note: By prior agreement between the director and instructor the Honors sequence in its entirety (THE 4593, 4594, 4595) may substitute for one Theatre History/Literature course requirement.

**Fourth Year (3 credit hours):**
- THE 4562 Contemporary Performance Theory

Audition and Portfolio Review: All students desiring admittance into the upper level acting courses must audition and those entering the upper level design sequence must present a portfolio. This normally occurs after the completion of the sophomore year.

### REQUIRED COURSES FOR AREAS OF STUDY IN THEATRE

**Theatre Arts Concentration (B.A. Degree) (TAA)**

The Theatre Arts Concentration is intended for the student who, in consultation with the Theatre Advisor, wishes to construct his/her own degree program from a broad spectrum of theatre courses. In addition to courses in performance and design, areas of study available are Puppetry, Playwriting, Stage Management, Directing, Literature and Criticism.

- **FKL General Education Core Curriculum:** 36
- **Language:** 8-10
- **Exit Courses:** 6
- **Theatre Core:** 33
**Required Theatre Arts Concentration Courses:** 21
Additional 3 credit hours of TPP Courses
Additional 18 credit hours of THE; TPA; TPP Courses
(9 credit hours must be at the upper level)

**Free Electives:** 14-16

**Total Hours:** 120

**Performance Concentration (B.A. Degree) (TAP)**

FKL General Education Core Curriculum: 36
Language: 8-10
Exit Courses: 6
Theatre Core: 33

**Required Performance Concentration Courses:** 25
TPP 2500 Body Disciplines
TPP 3790 Voice Preparation for the Actor
TPP 3155 Scene Study I
TPP 4180 Advanced Scene Study
TPP 4140 Styles of Acting
Additional 10 credit hours of TPP Courses

**Free Electives:** 10

**Total Hours:** 120

**Design Concentration (B.A. Degree) (TAD)**

FKL General Education Core Curriculum: 36
Language: 8-10
Exit Courses: 6
Theatre Core Courses: 33

**Required Design Concentration Courses:** 24
TPA 3007 Introduction to Design I
TPA 3008 Introduction to Design II
TPA 3208 Drafting and CAD I
TPA 3231 Costume Construction or TPA 3221 Lighting Theory and Practice
TPA 3251 Drafting and CAD II
THE 4283 Architecture and Decor
THE 4264 Costume History
TPA 4011 Design Studio I

**Free Electives:** 11-13

**Total Hours:** 120

**Requirements for the Minor in Theatre (TAR)**

The 16 total credit hours are required for the minor in Theatre.

**Required Courses (16 credit hours):**
THE 2020 Introduction to Theatre
TPP 2110 Voice and Body Improvisation
TPP 2190 Studio Theatre Performance I
TPA 2292 Production Involvement I
TPA 2200 Introduction to Technical Theatre I
TPA 2290L Introduction to Technical Theatre Lab I
TPA 2291 Introduction to Technical Theatre II or TPA 2220 Introduction to Technical Theatre III
TPA 2291L Introduction to Technical Theatre Lab II or TPA 2220L Introduction to Technical Theatre Lab III

A minimum of seven (7) credits chosen from THE; TPP; TPA courses with the approval of the advisor. All audition and portfolio requirements apply. A minimum of 12 credits must be taken in the USF School of Theatre & Dance.

**Theatre and Dance Faculty**

The Office of Undergraduate Studies (UGS) works in partnership with the academic colleges in the development, review and enhancement of the undergraduate programs to assist faculty to provide outstanding undergraduate education for students. The members of the UGS team work with faculty to establish and administer academic policies, assist with undergraduate curriculum development and review, and support proposals for new and revised programs and courses through the various approval processes. In addition to assisting with the academic programs offered by the colleges, Undergraduate Studies offers a number of academic programs, including the Bachelor of Science in Applied Sciences, Leadership Studies minor, and the Army, Air Force and Naval Reserve Officer Training Corps programs.

Undergraduate Studies provides a strong set of student success programs designed to make it more likely that students will successfully navigate the complexities of the transition to college and the baccalaureate experience. (It integrates academic endeavors with meaningful experiences within a myriad of student development programs.) Together, they aim to provide coordinated opportunities for students to develop their identities and intellectual competencies for successful careers and lifelong learning. Those services include: Tutoring and Learning Services in the Learning Commons, Career Services, First-Year and Transfer Student Orientation, the Transitional Advising Center, the Office of Academic Advocacy, the University Experience Course, First Generation Access and Pre-Collegiate Programs, the Office for Undergraduate Research in the Learning Commons and the Academic Enrichment Center for Student Athletes.

The Dean is committed to providing vision and leadership in undergraduate education and to serving the needs of all undergraduate students, including those with non-traditional and diverse backgrounds.

Career Services

Career Services provides USF students with comprehensive career planning and job search services. A staff of experienced professionals is available to help students choose a career; gain career-related work experience and plan their job search. Career Services also provides information on employment opportunities and creates venues where students can network and interview with local, state, national and international employers.

Career Services' numerous services are clustered into the areas of career planning, career-related work experience, job search preparation, and making contact with employers.

Career Planning

- Sessions with a career counselor are available to help students make an informed decision about a potential career and major.
- Career Assessment Surveys are available to help students identify their interests, skills, work values and personality profile.
- Career Decision-making Seminars, offered online, teach students about the career development process and how to choose a career and academic major.
- Career Reference Library contains information on career fields, including job descriptions, working conditions, educational requirements, salary information and projected employment outlook.

Career-Related Work Experience

- Part-time Jobs, off campus, are posted on the Career Services' website via Career Connections
- Cooperative Education (“Co-op”) a structured, academic program of paid, practical work experience related to a student's major is administered by the Career Center. Eligibility and program details are located on the Career Services' website.
- Internships are advertised on the Career Services' website. Internships for academic credit are coordinated through the student's sponsoring academic department.

Job Search Preparation

- Sessions with a career counselor are available for assistance with resume/cover letter preparation; interview techniques; and various other job search strategies.
- Job Search Seminars are available on topics such as resume writing, interview techniques and other job search strategies.
- Job Search Reference Library contains resources on resume writing, interviewing and job search strategies employer directories and salary information.
- Job Search Computer Lab, located in the Career Services’ reference library, is equipped with computers with Internet access for conducting an on-line job search, scheduling on-campus interviews and researching employers.
Practice interviews are available to help students polish and perfect their interview skills.

Making Contact with Employers
- On-Campus Interviews for Internships and full-time positions are conducted in the Career Center by recruiters from numerous types of organizations. All majors are eligible to participate.
- Resume Referral is available to students with a resume uploaded in the Career Center’s online resume database.
- Students can electronically refer their resume to apply for both on-campus interviews, and employment opportunities advertised in the Career Services’ job listing database.
- Employer Information Sessions allows students a chance to learn about employment opportunities, hiring criteria and the organization’s workplace directly from the employer.
- Career Networking Fairs and Part-time Job Fairs, held each semester, bring students and employers together to network and discuss employment opportunities.
- Job Listings are posted daily on Career Connections, the Career Services’ on online recruitment system, and include part-time jobs, internships, Cooperative Education and full-time professional positions.
- A Credential Service is available through a partnership between Career Services and Interfolio, Inc., an on-line service available to students applying to graduate or professional schools, or applying for jobs requiring a credential file, dossier or portfolio.

Alumni Services
Career Services’ Alumni Career Services assists USF alumni in career planning, career management and job search strategies critical for navigating today’s competitive job market. Alumni Career Services are exclusively for USF graduates who have completed a minimum of a bachelor’s degree.

Office of Academic Advocacy (OAA)
Location/Phone: SVC 2043; (813) 974-4051
Web Address: [http://www.ugs.usf.edu/aa/aa.htm](http://www.ugs.usf.edu/aa/aa.htm)

The Office of Academic Advocacy (OAA) is dedicated to serving undergraduate students in their pursuit of timely progression to graduation. This office works individually with students in academic distress to review his/her options and collaborates with colleges and University departments to improve progression to graduation.

An undergraduate student identified as experiencing barriers to graduation may receive direct outreach from OAA to review her/his progress and for advisement towards graduation.

Major advisors and University department staff may refer a student to OAA when it is perceived that the student has an academic barrier to graduation.

Student inquiries and requests for appointments may be sent to academicadvocacy@usf.edu.

Transitional Advising Center (TRAC)
Location/Phone: SVC 2043; (813) 974-2645
Web Address: [http://www.ugs.usf.edu/trac/trac.htm](http://www.ugs.usf.edu/trac/trac.htm)

The Transitional Advising Center is dedicated to promoting the successful achievement of transitional students’ academic goals through comprehensive advising services.

TRAC specializes in focusing on undergraduate students who have not yet declared a major, are preparing to enter the Hospitality Management major, or are pursuing the Bachelor of Science in Applied Science (BSAS) degree. The staff also certifies all students seeking Associate of Arts certificates.

TRAC is also available to students who need assistance with re-selecting a major. Sometimes a student’s original major of choice is no longer an option because of limited access programs, minimum GPA standards, or a realization that one is no longer on the right path. Whether this decision is voluntary or determined by academic requirements, TRAC advisors can assist with the selection of a new major.

Appointments can be scheduled online at: [http://usfweb3.usf.edu/appointments/StudentSignon.asp](http://usfweb3.usf.edu/appointments/StudentSignon.asp).

First Year Academic Programs
Location/Phone: SVC 2043; (813) 974-2645
Web Address: [http://www.ugs.usf.edu/ue/ue.htm](http://www.ugs.usf.edu/ue/ue.htm)

To support incoming students in their pursuit of academic and personal success, First Year Academic Programs offers two courses: University Experience and Academic Foundations Seminar. The elective credit earned from these courses can be applied to any undergraduate degree program.

SLS 1101 University Experience is designed specifically for first-year students to welcome them to USF. Each class consists of approximately 25-30 students and is built around four major themes: building community, learning about campus resources, developing effective academic skills, and exploring personal character and values. Research shows...
that students who complete the University Experience course earn higher GPAs, have higher graduation rates, and are more involved on campus.

Making the transition from high school to a major university is sometimes challenging, yet very exciting. The University Experience course brings first year students together in small groups to discuss such topics as:

- Campus Resources
- Study Strategies
- Academic Planning
- Major/Career Decision-Making
- Time Management
- Financial Literacy
- Library and Technology Resources
- Personal Wellness
- Globalization
- Involvement Opportunities

SLS 2901 Academic Foundations Seminar is designed to assist incoming first-year students with their acclimation to the University, development of effective academic skills, and selection of a career and major. This course is a hybrid of SLS 1101 University Experience, SLS 2401 Career Development for Today and REA 1605 Advanced Learning Systems. The curriculum has been carefully structured to consolidate select content from the three source courses into a six-week format appropriate for students in summer bridge programs.

Tutoring & Learning Services

Location/Phone: LIB 206; (813) 974-2713
Web Address: http://www.usf.edu/learning

Tutoring & Learning Services is part of the Library Learning Commons and is located on the second floor, LIB 206. Offering a variety of academic support services, the mission of the department is to support student learning. Tutoring is free and available in many different subject areas including math, science, and languages. Students can select from several drop-in centers or make an appointment. In addition, a number of academic enhancement courses and workshops on learning strategies, test-taking, study and research skills are offered each semester including several credited courses such as Strategic Learning (REA 2604) and Critical Reading and Writing (REA 2105).

Writing Center

Location/Phone: LIB 125; (813) 974-8293
Web Address: http://www.usf.edu/writing

The Writing Center is a place for writers of all skill levels to take chances, ask questions, and develop their abilities. The Writing Center is an academic support partner in the Library Learning Commons and is located at LIB 125, just beyond the Reference Desk. Writing support is free to all registered USF students. Writing consultants are graduate students from English and several related departments, who are qualified to assist all levels of students from first-year undergraduate to doctoral level, including staff and faculty. Appointments are encouraged and can be scheduled by phone, in person, or online through Blackboard.

Academic Enrichment Center for Student Athletes

The Academic Enrichment Program at the University of South Florida is a full service program designed with the goal of enhancing the total development of the USF student-athlete. The program is focused on the unique needs and demands of student-athletes at USF and fosters the cultivation of skills that allow for the development of potential in the classroom, on the field and for the future.

The Academic Enrichment Program provides a variety of support mechanisms for all student-athletes by way of specific events and activities designed to promote academic success, athletic success, community service, career development and personal development.

Because we are committed to academic success and to providing the appropriate level of support for all our students-athletes, the academic component of our Enrichment Program is considered most vital. Focus is placed on identifying and meeting the needs and challenges faced by our student-athletes through providing assistance programs, workshops, tutoring and mentoring made available throughout the academic year. Emphasis is placed on encouraging student-athletes to take responsibility for their academic careers and for being productive and successful members of the USF academic community.
First Generation Access and Pre-Collegiate Programs

The First Generation Access and Pre-collegiate Programs (FGAPP) consist of retention programs providing access to a university education for promising first year students who are first-generation college students and/or come from limited income households. The Freshman Summer Institute and the Student Support Services programs provide services and activities that focus on helping students transition from high school to college, improving student persistence and graduation, promoting academic achievement and providing academic, social, and cultural support during their matriculation at the University.

FGAPP also administers federal and state funded pre-collegiate programs charged with serving the needs of underserved students in Hillsborough County. These programs, Upward Bound and the College Reach-Out Program (CROP), work with first-generation and limited income secondary students (grades 8 through 12) who aspire to attain a post-secondary education. Both programs encourage, support, and prepare students to successfully complete high school on a timely basis and acquire the necessary skills to successfully enter and graduate from their college of choice.

The Freshman Summer Institute
Location/Phone: SVC 2011; (813) 974-4227
Web Address: http://www.ugs.usf.edu/fsi/fsi.htm

The Freshman Summer Institute (FSI) provides access to a university education for students from first generation and/or limited income families and identifies qualified individuals through a review of admission applications, academic records, and family income as determined by the Free Application for Federal Student Aid. Each year a limited number of students enter USF through this program.

All students admitted to FSI must enroll in a six-week summer session. Throughout the six weeks, students are required to live in the residence halls where they experience an environment supportive of their academic work. Each student receives a rigorous academic class schedule consisting of nine credit hours in Foundations of Knowledge and Learning Core Curriculum and electives based on standardized test scores, high school transcript, and intended major. Students attend weekly workshops on a variety of topics relevant to academic success, acclimation to college life, and their growth and development as first-year students. Students must complete all hours attempted with a grade of C- or better and end the summer term in good academic standing in order to continue in the fall semester.

The Freshman Summer Institute tackles the challenges of the freshman year with an active concern for students’ personal and academic welfare, enhancing their academic enrichment and better orienting them to the university environment. Continuous counseling and advising is a crucial element of the program. Counselors personally advise, counsel and monitor students’ progress throughout the first year. Personalized attention, combined with a holistic approach for student growth, distinguishes the Freshman Summer Institute as a unique student resource.

Student Support Services
Location/Phone: SVC 2011; (813) 974-4301
Web Address: http://www.ugs.usf.edu/sss/sss.htm

Student Support Services (SSS) is a federally funded retention program designed to help students make a smooth transition from high school to the University of South Florida. The program provides academic and personal support for students during their first two years of enrollment. A student is eligible to participate in Student Support Services if the student meets all of the following requirements:

   a. Is a citizen or national of the United States or meets the residency requirements for Federal student financial assistance;
   b. Is enrolled at the grantee institution or accepted for enrollment in the next academic term at that institution;
   c. Has a need for academic support (SAT below 1020 or ACT below 21 or high school grade point average below 3.20);
   d. Is 1) a low income individual; 2) a first generation college student (the student’s parents did not earn a four year degree); or 3) an individual with disabilities.

Student Support Services provides a six-week summer program to ease the transition from high school to college, enhance self-confidence, establish a strong foundation during the summer semester, and expose students to university resources and facilities. Students receive a comprehensive summer orientation, individualized advising, college survival skills and course credit toward graduation. Students must complete the summer term in good academic standing in order to participate in the program during future terms. Other services provided include ongoing individual counseling, midterm assessment, pre-registration, informational seminars, financial assistance, tutorial assistance, computerized tutorial assistance program, computer lab, career programs, and counseling. Research reveals that USF’s Student Support Services Program has been recognized nationally for its positive impact on student retention and graduation rates. In fact, 80-90% of program participants are in good academic standing at the end of each semester.
ENLACE
Location/Phone: SVC 2011; (813) 974-2563
Web Address: http://www.ugs.usf.edu/enlace/enlace.htm

ENcouraging LAtilo College Excellence (ENLACE) is a program designed to promote academic success, retention, and graduation of Latino students on the University of South Florida campus. Focusing on first generation in college students from limited income families, the program helps students make a smooth transition to campus life and provides services designed to help create a strong sense of community of students. ENLACE provides motivation, encouragement, and guidance in professional and personal development. Students are encouraged to participate in community outreach programs through activities that celebrate their culture, educate their community, and provide opportunities for growth and development.

College Reach-Out Program (CROP)
Location/Phone: SVC 1054; (813) 974-3713
Web Address: http://www.ugs.usf.edu/crop/crop.htm

The College Reach-Out Program (CROP) is a statewide program designed to increase the number of students who successfully complete a postsecondary institution. The program’s primary objective is to strengthen the educational motivation and preparation of low-income and educationally disadvantaged students in grades 8 through 11, representing various cultural backgrounds, who otherwise would be unlikely to seek admission to a community college, state university, or independent post-secondary institution without special support and recruitment efforts.

The goals of CROP are to motivate students to pursue a postsecondary institution, develop students’ basic learning skills, strengthen students’ and parents’ understanding of the benefits of postsecondary education, and foster academic, personal, and career development through supplemental instruction.

Upward Bound Program
Location/Phone: SVC 1054; (813) 974-9138; Fax: (813) 974-2022
Web Address: http://www.ugs.usf.edu/upbound.htm

The Upward Bound Program (UBP) at the University of South Florida provides fundamental support to participants in their preparation for college placement. The program provides opportunities for participants to succeed in their pre-college performance and ultimately in their higher education pursuits. UBP serves high school students (grades 9 through 12) from low-income and first-generation college households.

The goal of UBP is to increase the rates at which high school students enroll in and graduate from institutions of post-secondary education. The purpose of UBP is to provide assistance in developing goals, improving academic skills, and providing the motivation necessary to achieve success in a college or post-secondary program. The program serves 165 students from 5 target schools in the Hillsborough County School District that have been determined to have a high need for academic support.

- Bachelor of Science in Applied Science (APS) (CIP = 24.0102)
Location/Phone: SVC 2043; (813) 974-2645
Web Address: http://www.ugs.usf.edu/academic/bsas.htm

Workforce projections for the 21st Century indicate that there will be an ongoing need for people with specific skills and abilities to fill Florida’s growing number of specialized, scientific, industrial and technological positions. Florida’s two-year colleges offer many exceptional programs that meet these demands through their Associate in Science (A.S.) degrees. Although these applied and technical degrees provide excellent preparation for students seeking jobs that require specific knowledge, skill and ability, they have not generally transferred very efficiently into four-year Bachelor’s degree programs. The Bachelor of Science in Applied Science (B.S.A.S.) has been developed by USF under certain provisions of Florida legislation to remove constraints from the transfer process, recognize past course work as transferable credit to the university, and afford exciting new opportunities for A.S. degree holders to pursue and acquire a distinctive USF Bachelor’s degree.

The BSAS program is a “capstone” degree offering A.S. degree holders an efficient pathway to a Bachelor’s degree. It provides Florida A.S. transfer students with a broad educational experience and a unique academic area of concentration. The various concentrations allow students to somewhat tailor their degree to match their academic interests and career ambitions. To achieve this end, BSAS students will plan their program in ongoing consultation with an academic advisor who will help students design their individualized program of study.
Requirements for the Major in Bachelor of Science in Applied Science

Recommended Prerequisites (State Mandated Common Prerequisites)

This degree program is available ONLY to Associate in Science (A.S.) graduates from a Florida public community/junior college.

There are no State Mandated Common Prerequisites for this degree program.

Students wishing to transfer to USF must complete an A.S. degree with a minimum overall 2.0 GPA in all college-level courses accepted for transfer credit to USF, with no grade lower than C-. Students should complete at least 18 credit hours of the general education requirements as part of their A.S. degree, which should include Gordon Rule communication and computation courses to fulfill these requirements while at the community college.

The A.S. degree will transfer as a complete 60 credit hour package to USF (applicable only to the BSAS program). Technical coursework will transfer as a 42-credit hour technical block. The remaining 18 credit hours of general education coursework from the A.S. will be matched against USF requirements to determine which courses remain outstanding for fulfillment of the University’s 36-credit hour General Education Requirement.

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university.

<table>
<thead>
<tr>
<th>Category</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community College Block Credit</td>
<td>42</td>
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<tr>
<td>Community College General Education</td>
<td>18</td>
</tr>
<tr>
<td>USF General Education</td>
<td>18</td>
</tr>
<tr>
<td>USF Area of Concentration*</td>
<td>24</td>
</tr>
<tr>
<td>Required Courses</td>
<td>21</td>
</tr>
<tr>
<td>College Exit Requirement</td>
<td>3</td>
</tr>
<tr>
<td>USF Writing Intensive Course</td>
<td>3</td>
</tr>
<tr>
<td>USF Electives**</td>
<td>15</td>
</tr>
<tr>
<td>Total BSAS Credit Hours</td>
<td>120</td>
</tr>
</tbody>
</table>

*Note that all BSAS Areas of Concentration are at least 24 credit hours.

**Elective credit hours may vary slightly, but will not require students to exceed a total of 120 credit hours for completion of the BSAS degree.

Within the 60 credit hours of USF coursework beyond the A.S., BSAS students will complete:
- a minimum of 48 credit hours of upper-level (3000-4999) courses
- at least 30 hours of the last 60 credit hours at USF
- foreign language requirement (can be satisfied by two years of high school foreign language credit or 8 college credit hours in a single foreign language) Note: ASL 2140C Basic American Sign Language and ASL 2150C Intermediate American Sign Language may be substituted to meet this requirement.

The following BSAS Areas of Concentration are offered fully or partially online:
- Criminal Justice (fully online)
- Public Health (fully online)
- Information Studies: Health Informatics (fully online)
- Information Studies: Information Architecture (fully online)
- Information Technology (fully online)
- Environmental Policy and Management (partially online)
- Urban Studies (partially online)

Consult advisor for availability of online course offerings.

Requirements for Areas of Concentration

BSAS - Behavioral Healthcare Concentration (ABH) – 24 credits

Behavioral health problems, including mental illness and substance abuse, are among the greatest public health challenges facing our communities. Students enrolling in the Behavioral Healthcare concentration will be exposed to treatment approaches as well as to issues related to the organization, financing, delivery, and outcomes of behavioral health services. Combining academic and experiential learning, the concentration provides students with information and practical experience in behavioral healthcare services.

Concentration Requirements (15 credit hours):

- MHS 3411 Multidisciplinary Behavioral Healthcare Services
- MHS 4002 Behavioral Health Systems Delivery
- MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
- MHS 4425 Field Experience in Behavioral Healthcare
Electives (6 credit hours):

- CLP 4414 Behavior Modification
- MHS 4022 Adult Psychopathology in the Community
- MHS 4023 Recovery-Oriented Mental Health Services
- MHS 4203 Practical Skills: Children's Behavioral Healthcare
- MHS 4434 Behavioral Health and the Family
- MHS 4452 Co-occurring Disorders
- MHS 4463 Suicide Issues in Behavioral Health
- MHS 4490 Behavioral Healthcare Issues for Children
- MHS 4731 Writing for Research and Publication in BCS
- MHS 4931 Selected Topics: Gerontological Counseling
- RCS 4033 Overview of Rehab and MH Counseling Professions

College EXIT Requirement (3 credit hours):

- IDS 4934 Senior Capstone for BSAS/BGS

BSAS – Criminal Justice Concentration (ACJ) – 24 credits

The Criminal Justice concentration provides students with an exposure to all facets of the criminal justice system including law enforcement, detention, the judiciary, corrections, and probation and parole. The program concentrates on achieving balance in the above aspects of the system from the perspective of the criminal justice professional, the offender, and society. The objective of the concentration in Criminal Justice is to develop a sound educational basis either for graduate work or for professional training in one or more of the specialized areas comprising the modern urban criminal justice system.

Concentration Requirements (6 credit hours):

- CCJ 3117 Theories of Criminal Behavior
- CCJ 3024 Survey of the Criminal Justice System

Electives (3 credit hours):

- CJE 4114 American Law Enforcement Systems
- CJE 4010 Juvenile Justice System
- CJC 4010 American Correctional Systems

Electives (3 credit hours):

- CJL 3110 Substantive Criminal Law
- CJL 4410 Criminal Rights and Procedures

Electives (9 credit hours):

Do not choose a course from the following list that has been chosen from above.

- CCJ 3014 Crime and Justice in America
- CCJ 3621 Patterns of Criminal Behavior
- CCJ 3701 Research Methods in Criminal Justice I
- CCJ 4224 Miscarriages of Justice
- CCJ 4361 Death Penalty
- CCJ 4450 Criminal Justice Administration
- CCJ 4604 Abnormal Behavior and Criminality
- CCJ 4613 Forensic Psychology
- CCJ 4651 Drugs and Crime
- CCJ 4662 Race and Crime
- CCJ 4681 Domestic Violence
- CCJ 4690 Sex Offenders
- CCJ 4900 Directed Readings
- CCJ 4910 Directed Research
- CCJ 4933 Selected Topics in Criminology (may be repeated with different topics)
- CCJ 4940 Internship for Criminal Justice Majors
- CJE 4114 American Law Enforcement Systems
- CJE 4010 Juvenile Justice System
- CJE 4610 Criminal Investigation
- CJC 4010 American Correctional Systems
- CJL 3110 Substantive Criminal Law
- CJL 4410 Criminal Rights and Procedures
- CJL 4115 Environmental Law and Crime
Any other upper-level (3XXX-4XXX) course with a CCJ, CJC, CJE, CJL, or CJT prefix except CCJ 4934.

College EXIT Requirement (3 credit hours):

IDS 4934 Senior Capstone for BSAS/BGS

BSAS – Deaf Studies Concentration (ADS) – 24 credits

This concentration will introduce students to the history, culture and language of the American Deaf community. The student will be exposed to the full spectrum of Deafness from the cultural view to the pathological view. In addition, students will be able to explore a variety of social and community services and tailor their education to their specific area of interest. Students will be able to apply their knowledge of Deafness and cultural perspective to these social and community services in order to become an advocate within the community.

Concentration Requirements (12 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL 3514</td>
<td>History and Culture of the Deaf</td>
</tr>
<tr>
<td>INT 3004</td>
<td>Fundamentals of Interpreting</td>
</tr>
<tr>
<td>SPA 3470</td>
<td>Culture and Diversity in Comm. Sci/Disorders</td>
</tr>
<tr>
<td>SPA 4321</td>
<td>Introduction to Audiologic Rehabilitation</td>
</tr>
</tbody>
</table>

Electives (9 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL 2140C</td>
<td>Basic American Sign Language</td>
</tr>
<tr>
<td>ASL 2150C</td>
<td>Intermediate American Sign Language</td>
</tr>
<tr>
<td>ASL 3324</td>
<td>Advanced ASL Discourse</td>
</tr>
<tr>
<td>ASL 4161C</td>
<td>Advanced American Sign Language</td>
</tr>
<tr>
<td>ASL 4201C</td>
<td>American Sign Language IV</td>
</tr>
<tr>
<td>ASL 4301C</td>
<td>Structure of Sign Language</td>
</tr>
<tr>
<td>CCJ 3024</td>
<td>Survey of Criminal Justice</td>
</tr>
<tr>
<td>GEY 3625</td>
<td>Sociological Aspects of Aging</td>
</tr>
<tr>
<td>INT 3270</td>
<td>Interpreting Process and Skill Development</td>
</tr>
<tr>
<td>INT 4490</td>
<td>Introduction to Cued Speech and its Applications</td>
</tr>
<tr>
<td>MHS 3411</td>
<td>Multidisciplinary Behavioral Healthcare Services</td>
</tr>
<tr>
<td>RCS 4931</td>
<td>Introduction to the Counseling Professions</td>
</tr>
<tr>
<td>SOW 3210</td>
<td>American Social Welfare System</td>
</tr>
<tr>
<td>SPA 3002</td>
<td>Introduction to Disorders of Speech and Language</td>
</tr>
<tr>
<td>SPA 3004</td>
<td>Introduction to Language Development and Disorders</td>
</tr>
<tr>
<td>SPA 3030</td>
<td>Introduction to Hearing Science</td>
</tr>
<tr>
<td>SPA 3112</td>
<td>Applied Phonetics in Communication Disorders</td>
</tr>
<tr>
<td>SPA 3261</td>
<td>Language Science for Comm. Sci/Disorders</td>
</tr>
<tr>
<td>SPA 3310</td>
<td>Introduction to Disorders of Hearing</td>
</tr>
</tbody>
</table>

College EXIT Requirement (3 credit hours):

IDS 4934 Senior Capstone for BSAS/BGS

BSAS – Environmental Policy & Management Concentration (AEP) – 25 credits

This concentration is a unique interdisciplinary program that incorporates courses from various colleges across the University. Although there are courses in the concentration that are offered by the Environmental Science and Policy Division, the degree concentration also offers students the opportunity to take supporting courses in other physical and natural sciences, statistics, policy, and ethics.

Concentration Requirements (7 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 2001</td>
<td>Introduction to Environmental Science</td>
</tr>
<tr>
<td>EVR 2001L</td>
<td>Introduction to Environmental Science Lab</td>
</tr>
<tr>
<td>EVR 2861</td>
<td>Introduction to Environmental Policy</td>
</tr>
</tbody>
</table>

Electives (9 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 4027</td>
<td>Wetland Environments</td>
</tr>
<tr>
<td>EVR 4104</td>
<td>Karst Environments</td>
</tr>
<tr>
<td>EVR 4114</td>
<td>Climate Change</td>
</tr>
<tr>
<td>EVR 4930</td>
<td>Selected Topics:</td>
</tr>
<tr>
<td>GEO 4502</td>
<td>Economic Geography</td>
</tr>
<tr>
<td>PHI 3640</td>
<td>Environmental Ethics</td>
</tr>
</tbody>
</table>

Electives (6 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 4403</td>
<td>Environmental Anthropology</td>
</tr>
<tr>
<td>ECP 3302</td>
<td>Environmental Economics</td>
</tr>
<tr>
<td>EDF 3228</td>
<td>Human Behavior and Environmental Selection</td>
</tr>
<tr>
<td>EVR 4930</td>
<td>Selected Topics</td>
</tr>
</tbody>
</table>
GEO 3602 Urban Geography
GEO 4280C Hydrology
GEO 4284 Water Resources Management
GEO 4340 Natural Hazards
GEO 4372 Global Conservation
GIS 3006 Computer Cartography
GIS 5049 GIS for Non-Majors
HSC 4551 Survey of Human Diseases
PAD 3003 Introduction to Public Administration
PAD 4144 Non-Profits and Public Policy
POS 3142 Intro to Urban Politics/Government
POS 3182 Florida Politics and Government
POS 3697 Environmental Law
PUP 4002 Public Policy
PUP 4203 Environmental Politics and Policy
URP 4050 City Planning and Community Development
URS 3002 Introduction to Urban Studies
WST 3324 Women, Environment and Gender

College EXIT Requirement (3 credit hours):
IDS 4934 Senior Capstone for BSAS/BGS

BSAS – Gerontology Concentration (AGR) – 24 credits
Gerontology is the study of the process of human aging in all its many aspects: physical, psychological and social. In the School of Aging Studies, particular emphasis is placed upon applied gerontology, with the goal of educating students who in their professional careers will work to sustain or improve the quality of life in older persons.

Concentration Requirements (12 credit hours):
GEY 2000 Introduction to Gerontology
GEY 3601 Physical Changes and Aging
GEY 3625 Sociocultural Aspects of Aging
GEY 4612 Psychology of Aging

Electives (9 credit hours):
GEY 4101 Aging in Special Populations
GEY 4102 Aging in Modern Literature and Film
GEY 4231 Elder Abuse and Neglect
GEY 4322 Case Management
GEY 4360 Gerontological Counseling
GEY 4608 Alzheimer's Disease Management
GEY 4629 Women and Aging
GEY 4635 Business Management in an Aging Society
GEY 4641 Death and Dying
GEY 4647 Ethical and Legal Issues in Aging
GEY 4690 Senior Seminar in Gerontology

College EXIT Requirement (3 credit hours):
IDS 4934 Senior Capstone for BSAS/BGS

BSAS – Information Studies: Information Architecture Concentration (AIA) – 24 credits
The Information Architecture concentration provides students with the foundational technical knowledge, information design theory, and best practices supporting designing, organizing, classifying, and improving web sites and other online applications, organization intranets, social networking applications and online communities, and software for a variety of organizations. The Information Architect’s career opportunities may be in information architecture, project management, design, analysis, usability testing, planning, user interaction design, universal access design, web database design, customer management, and other information related fields.

Concentration Requirements (18 credit hours):
LIS 3261 Introduction to Information Science
LIS 3353 IT Concepts for Information Professionals
LIS 3783 Information Architecture
LIS 3361 Web Page Design and Management
LIS 3352 Interaction Design
LIS 4365 Web Design Technologies

332
**Electives (3 credit hours):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDA 3101</td>
<td>Computer Organization for Information Technology</td>
</tr>
<tr>
<td>CEN 3722</td>
<td>Human Computer Interfaces for Information Technology</td>
</tr>
<tr>
<td>CEN 4031</td>
<td>Software Engineering Concepts for Information Technology</td>
</tr>
<tr>
<td>CGS 3303</td>
<td>IT Concepts</td>
</tr>
<tr>
<td>CGS 3373</td>
<td>IT Concepts &amp; Data Networking</td>
</tr>
<tr>
<td>CGS 3374</td>
<td>Computer Architecture &amp; Operating Systems</td>
</tr>
<tr>
<td>CGS 3845</td>
<td>Electronic Commerce</td>
</tr>
<tr>
<td>CGS 3847</td>
<td>Advanced E-Commerce</td>
</tr>
<tr>
<td>CGS 3850</td>
<td>Web Development: JavaScript &amp; jQuery</td>
</tr>
<tr>
<td>CGS 4855</td>
<td>Intermediate Web Development (jQuery)</td>
</tr>
<tr>
<td>CIS 3360</td>
<td>Principles of Information Security</td>
</tr>
<tr>
<td>CIS 3362</td>
<td>Cryptography and Information Security</td>
</tr>
<tr>
<td>CIS 3367</td>
<td>Architecting Operating System Security</td>
</tr>
<tr>
<td>CIS 4032</td>
<td>Special Topics for Information Technology</td>
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<tr>
<td>CIS 4035</td>
<td>Senior Project in Information Technology</td>
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<td>COP 1930</td>
<td>Special Topics for Information Technology</td>
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<td>COP 2930</td>
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<td>COP 2931</td>
<td>Special Topics for Information Technology</td>
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<tr>
<td>COP 3515</td>
<td>Program Design for Information Technology</td>
</tr>
<tr>
<td>COP 3718</td>
<td>Intermediate Database Systems</td>
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<td>COP 3931</td>
<td>Special Topics for Information Technology</td>
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<tr>
<td>COP 4610</td>
<td>Operating Systems for Information Technology</td>
</tr>
<tr>
<td>COP 4610L</td>
<td>Operating Systems Laboratory for Information Technology</td>
</tr>
<tr>
<td>COP 4814</td>
<td>Web Services</td>
</tr>
<tr>
<td>COP 4816</td>
<td>XML Applications</td>
</tr>
<tr>
<td>COP 4834</td>
<td>Data-Driven Web Sites</td>
</tr>
<tr>
<td>COP 4931</td>
<td>Special Topics for Information Technology</td>
</tr>
<tr>
<td>EEL 4782</td>
<td>Computer Information Networks for Information Technology</td>
</tr>
<tr>
<td>EEL 4782L</td>
<td>Computer Information Networks Laboratory for Information Technology</td>
</tr>
<tr>
<td>EEL 4854</td>
<td>Data Structures and Algorithms for Information Technology</td>
</tr>
<tr>
<td>ETG 3612</td>
<td>Operations Management</td>
</tr>
<tr>
<td>ETG 3931</td>
<td>Special Topics in Information Technology</td>
</tr>
<tr>
<td>ETG 3933</td>
<td>Selected Topics in Technology</td>
</tr>
<tr>
<td>ETG 3934</td>
<td>Selected Topics in Technology II</td>
</tr>
<tr>
<td>ETG 4930</td>
<td>Special Topics in Information Technology</td>
</tr>
<tr>
<td>LIS XXXX</td>
<td>Approved Information Science elective</td>
</tr>
</tbody>
</table>

**College EXIT Requirement (3 credit hours):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDS 4934</td>
<td>Senior Capstone for BSAS/BGS</td>
</tr>
</tbody>
</table>

**BSAS – Information Technology Concentration (ATC) – 24 credits**

The Information Technology concentration is designed to bridge the gap between computer science and the business use of computers. Emphasis is placed on knowledge-based computer and information technology as well as applications, programming and networking in an era of rapidly changing technology.

**Entrance Requirement for IT concentration:** Students must have completed the A.S. degree with a major in Information Technology, Computer Science, Networking, or a closely related field.

**Concentration Requirements (10 credit hours):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 3303</td>
<td>Information Technology Concepts</td>
</tr>
<tr>
<td>EEL 4782</td>
<td>Computer Information Networks for IT</td>
</tr>
<tr>
<td>EEL 4782L</td>
<td>Computer Information Networks for IT Lab</td>
</tr>
</tbody>
</table>
Electives (11 credit hours):
- CDA 3101 Computer Organization for IT
- CEN 3722 Human Computer Interfaces for IT
- CEN 4031 Software Engineering Concepts for IT
- CGS 2034 Computers and Impact on Society
- CGS 2060 Intro to Computers and Programming
- CGS 2094 Cyber Ethics
- CGS 3845 Electronic Commerce
- CGS 3853 IT Web Design
- CIS 3932 Selected Topics for IT
- CIS 4361 Information Technology Security Management
- CIS 4412 Information Technology Resource Management
- COP 2510 Programming Concepts
- COP 2931 Selected Topics for Information Technology
- COP 3515 Program Design for IT
- COP 3931 Selected Topics for IT
- COP 4610 Operating Systems for IT
- COP 4703 Database Systems for IT
- EEL 4854 Data Structures and Algorithms for IT
- ETG 4932 Selected Topics in Technology II

College EXIT Requirement (3 credit hours):
- IDS 4934 Senior Capstone for BSAS/BGS

BSAS – Leadership Studies Concentration (ALS) – 24 credits
The Leadership Studies concentration program is interdisciplinary in nature and is a significant benefit to students in all areas of study. Courses are designed to give students a practical and theoretical grasp of leadership on the basic assumption that leadership can be learned and, therefore, taught. The program has a unique approach to leadership that combines practical theories and opportunities for students to study the characteristics of authority, leadership, social and role dynamics, political processes and the values that orient their careers.

Concentration Requirements (3 credit hours):
- LDR 4104 Theories of Leadership

Electives (3 credit hours):
- LDR 2010 Leadership Fundamentals
- LDR 3331 Leading in the Workplace

Electives (9 credit hours):
- LDR 3214 Leadership in the Fraternal Movement
- LDR 3280 Leadership in the Political Context
- LDR 3930 Special Topics (repeatable with different topics)
- LDR 4114 Survey of Leadership Readings
- LDR 4164 Organizational Theory/Process
- LDR 4564 Images of Leadership in the Media

Electives (6 credit hours):
- LDR 3115 Contemporary Issues in Leadership
- LDR 3216 Leadership and Social Change
- LDR 3263 Community Leadership Practicum
- LDR 4204 Ethics and Power in Leadership
- LDR 4230 Global Leadership

College EXIT Requirement (3 credit hours):
- IDS 4934 Senior Capstone for BSAS/BGS

BSAS - Public Administration Concentration (APU) – 24 credits
The Public Administration concentration courses will benefit those students preparing for a career in local, state, or federal agencies of government, non-profit organizations, and special service districts and/or graduate work in public administration and related fields.

Concentration Requirements (15 credit hours):
- PAD 3003 Introduction to Public Administration
- PAD 4204 Public Financial Administration
- PAD 4415 Personnel and Supervision in Today’s Organizations
### BSAS – Public Health Concentration (APL) – 24 credits

Upon completion of the Public Health concentration coursework, a student will be able to articulate the role of public health in disease prevention and health promotion at the local, state, national and global level, describe public health concepts and issues, discuss and analyze current public health issues, describe career paths in public health, and develop an understanding of public health that can serve as a foundation for graduate coursework in the field.

#### Concentration Requirements (9 credit hours):
- PHC 4101 Introduction to Public Health
- PHC 4030 Introduction to Epidemiology
- HSC 4551 Survey of Human Disease

#### Electives (12 credit hours):
- HSC 3541 Human Structure and Function
- HSC 4172 Women’s Health: A Public Health Perspective
- HSC 4211 Health, Behavior and Society
- HSC 4430 Occupational Health and Safety
- HSC 4504 Foundations of Public Health Immunology
- HSC 4537 Medical Terminology
- HSC 4579 Foundation of Maternal and Child Health
- HSC 4573 Foundations of Food Safety
- HSC 4624 Foundations of Global Health
- HSC 4630 Understanding U.S. Health Care
- HSC 4631 Critical Issues in Public Health
- HSC 4933 Special Topics in Public Health
- HUN 3272 Sports Nutrition
- HUN 3296 Nutrition and Disease
- PHC 4031 Emerging Infectious Diseases
- PHC 4069 Biostatistics in Society
- PHC 4241 Mental Health and Disasters
- PHC 4406 Pop Culture, Vices, and Epidemiology
- PHC 4542 Stress, Health and College Life
- PHC 4720 Foundation to Professional Writing in Public Health
- PHC 4931 Health Care Ethics

#### College EXIT Requirement (3 credit hours):
- IDS 4934 Senior Capstone for BSAS/BGS

### BSAS – Urban Studies Concentration (AUR) – 24 credits

The Urban Studies concentration offers students the opportunity to supplement their education and training with a focus on the problems and potential of the urban world around us. Understanding the economic, social, cultural, political and spatial phenomena of urban areas, and how they came to be, is essential if one is to thrive in today's world.

#### Concentration Requirements (6 credit hours):
- URS 3002 Introduction to Urban Studies
- PAD 3003 Introduction to Public Administration

#### Electives (6 credit hours):
- URP 4050 City Planning and Community Development
- URP 4052 Urban and Regional Planning
- URP XXXX An approved URP course or URS XXXX An approved URS course

#### Electives (9 credit hours):
- AMH 3423 Modern Florida
- AMH 3500 American Labor History
Requirements for the Minor in Leadership Studies (LDS)

Location/Phone: SVC 2003; (813) 974-4051
Web Address: http://www.ugs.usf.edu/academic/isminor.htm

VISION
The University of South Florida’s Leadership Studies Program will seek to develop students into knowledgeable, capable, and ethical leaders who are inspired and prepared to effectively engage the complex challenges of leadership and affect positive change in their personal lives, organizations, communities, the nation and the world.

MISSION
The University of South Florida’s Leadership Studies Program provides intentional and rigorous academic courses that educate students in a cross-disciplinary understanding of leadership. This is achieved through a diverse, relevant, and comprehensive curriculum emphasizing active-collaborative learning, self-reflection and critical thinking.

PROGRAM DESCRIPTION
The leadership Studies Program is interdisciplinary in nature and is a significant benefit to students in all areas of study. Courses are designed to give students a theoretical and practical grasp of leadership relying upon the basic assumption that leadership can be learned and, therefore, taught. The program takes a unique approach to leadership education that combines practical application of leadership theories and opportunities for students to study the characteristics of authority, leadership, social dynamics, political processes and the values that orient human behavior.

The minor in Leadership Studies consists of a minimum of 15 credit hours with a minimum grade of C (not C-) better in each course.

CORE COURSES (all are required to receive the Minor)
LDR 2010 Fundamentals of Leadership or LDR 3331 Leading in the Workplace
LDR 4104 Theories of Leadership*
LDR 4951 Leadership Capstone Seminar (preferred taken as last course)*

One course must be taken from each of the following Dimensions of Leadership:

PERSONAL DIMENSIONS OF LEADERSHIP (at least one course for 3 credits)
LDR 4114 Survey of Leadership
LDR 4564 Images of Leadership in the Media
LDR 4204 Ethics and Power in Leadership
LDR 3115 Contemporary Issues in Leadership
LDR 3930 Selected Topics

GLOBAL AND ORGANIZATIONAL DIMENSIONS OF LEADERSHIP (at least one course for 3 credits)
LDR 3263 Community Leadership Practicum*
LDR 3280 Leadership in the Political Context
LDR 4164 Organizational Theories and Processes*
LDR 4230 Global Leadership
LDR 3216 Leadership and Social Change*
COM 3120 Organizational Communication
LDR 3930 Selected Topics

*These courses require LDR 2010 Fundamentals of Leadership with a minimum grade of C- as a pre-requisite.

Joint Military Leadership Center at USF
Location/Phone: CWY 407; (813) 974-2025
Web Address: http://www.ugs.usf.edu/jmslc/jmslc.htm

The Mission of the Joint Military Leadership Center’s is to provide Reserve Officers Training Corps (ROTC) cadets/midshipmen/officer candidates with unique core competencies and skills in leadership development, global understanding, and National security/military/defense strategies. They will oversee and provide an academically-structured, research-based, and values-driven program that educates, trains, and prepares Military Officers and Service Leaders for their leadership roles in the continuing transformation of America's Armed Forces in the dynamic and challenging global environment.

The University of South Florida is one of only 38 campuses in the Nation that have ROTC programs from all of the Nation's Armed Services (Army, Marine Corps, Navy, and Air Force). A total of 338 college and university campuses in America host an ROTC program from at least one Armed Service. More than 500 undergraduate men and women currently participate in the USF ROTC programs. Most of them attend undergraduate classes exclusively at USF, but many are undergraduate students at nearby colleges and universities that do not have their own ROTC program, faculty, and facilities. Consistent with the mission of USF, a premier, metropolitan-based, research university, The Joint Military Leadership Center focuses on the nature and meaning of effective leadership in a changing environment through high quality classroom delivery, structured research, and community-based experiences.

The Joint Military Leadership Center at the University of South Florida represents a unique, national leadership development model that supplements and strengthens the intellectual and pedagogical expertise of a major, public research university and a strong ROTC tradition. ROTC has witnessed significant expansion at the University of South Florida since the establishment of Air Force (1981), Army (1975) and Naval (2002) units. The ROTC Program is academically housed in Undergraduate Studies along with the University's well-regarded interdisciplinary program in Leadership Studies.

The Joint Military Leadership Center develops and implements educational programs to enhance the quality of the ROTC curriculum which includes sponsorship of relevant speakers from the military services, major Combatant Commands, the Department of Defense, the Interagency and the Senior National Representatives of the U.S. Central Command Coalition; joint activities for all ROTC units; and the ROTC Living Learning Community (LLC) established in the university’s Housing and Residential Education Department. In this way USF, through its ROTC programs, plays a significant role in the education and development of student leaders who, in turn, experience and understand the unique challenges associated with leadership in a joint strategic military environment as they train to become skilled Officers in the Nation's Armed Services.

Aerospace Studies
Air Force ROTC
Location/Phone: CWY 407; (813) 974-3367
Web Address: http://web.usf.edu/airforce/

The Air Force Reserve Officer Training Corps (AFROTC) curriculum includes 14-16 credit hours of instruction by active Duty Air Force officers over a three to four-year period. A student who successfully completes the AFROTC program and a Bachelor's degree will receive an Air Force commission as a Second Lieutenant and enter active duty in the United States Air Force.

AFROTC is offered as a three- or four-year program. Both programs require a student to successfully complete all degree requirements toward a Bachelor's degree, 14 or 16 credit hours of AFROTC classes, and a four-week field training encampment during the summer between his/her sophomore and junior years.

AFROTC students are also required to take a 2 hour non-credit leadership laboratory each semester. Students wear the Air Force uniform during these periods, complete syllabus directed leadership training, and learn the military
customs and courtesies of the Air Force. Leadership Laboratory is only offered 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.

Furthermore, AFROTC students are required to attend two physical training sessions each week in order to successfully complete the Air Force Physical Fitness Assessment. Physical training sessions are scheduled Tuesday and Thursday at 6:00am at USF and Wed at 7:00am at the University of Tampa.

AFROTC scholarships may be available for eligible applicants who meet highly competitive nationwide criteria established by AFROTC Headquarters. The scholarships may pay all tuition, fees, books, and a $300 - $500 per month tax-free stipend. Those interested in more information about scholarship criteria should contact the AFROTC Department or visit www.afrotc.com for the most current scholarship information. A student may enroll in the AFROTC program without an AFROTC scholarship.

Students interested in joining AFROTC must contact the Air Force ROTC Office at 813-974-3367 to schedule a “paperwork session” one semester prior to entering the program.

Requirements for the Minor in Aerospace Studies (AEO)
The Minor in Aerospace Studies provides students with an understanding of management and leadership concepts as they relate to military officers. Additionally, students analyze the evolution of American defense policy and strategy, with emphasis placed on the development of individual communication skills. In order for a student to minor in Aerospace Studies a minimum GPA of 2.0 is required in all courses used to satisfy the minor. A minimum of 12 of the 16 semester hours required must be earned at USF. Grades less than C (GPA of 2.0) or S grades will not be accepted. Students will not be able to use credit through exam or independent study for application to the minor.

Required courses (12 credit hours):
AFR 3220 Air Force Leadership and Management I
AFR 3231 Air Force Leadership and Management II
AFR 4201 National Security Affairs and Preparation for Activity Duty I
AFR 4211 National Security Affairs and Preparation for Active Duty II

Electives (4 credit hours):
AFR 1101 Foundation of the United States Air Force Part I
AFR 1120 Foundation of the United States Air Force Part II
AFR 2130 The Evolution of USAF Aerospace Power Part 1
AFR 2140 The Evolution of USAF Aerospace Power Part 2

Optional Courses:
MSL 1001C Leadership in the Army Profession
MSL 1002C Leadership Models and Methods
MSL 2101C Individual Leadership Studies
MSL 2102C Leadership in Changing Environments
MSL 3201C Leading Teams
MSL 3202C Leading Small Units
MSL 4302C Preparing for Army Leadership

Aerospace Studies Faculty
Professor: Col K.E. Garland; Assistant Professors: Lt Col M. Llewellyn; Major M. Moreno.

Military Science
Army Reserve Officers Training Corps (ROTC)
Location/Phone: CWY 405; (813) 974-4065
Web Address: http://armyrotc.com/edu/univsouthfl
Contact Email: arotcgbr@usf.edu

The Department of Military Science for Army Reserve Officers Training Corps (AROTC) was established to select and prepare students to serve as officers in the Regular and Reserve components of the United States Army. The curriculum is designed to develop students’ leadership potential and improve students’ planning, organizational, and managerial skills.

Army ROTC training is divided into two phases: the first two years constitute the Basic Course; the last two the Advanced Course. The Department offers both a four- and a two-year program, each leading to a commission as a Second Lieutenant in the United States Army. The four-year program requires completion of the Basic Course, a five-week field training course, and the Advanced Course. Students with prior active military service or previous training at military schools may be exempt from some or all of the Basic Course. Students with questions concerning the various options should contact the Professor of Military Science for more information. Enrollment is open to qualified students.
Army ROTC training provides scholarships, pay, free uniforms and textbooks for scholarship and/or contracted Cadets. Scholarships are awarded on a competitive basis in all academic majors. The scholarship pays full tuition or room and board, books, lab and mandatory fees, and certain other academic expenses.

Additional Skills Training

Airborne School, Air Assault School, and the Northern Warfare School are available to both Basic and Advanced Course students during semester breaks. Additional skills training is also available during the academic year to include first aid, rappelling, orienteering, etc.

Basic Course

The Basic Course consists of four semesters of classroom instruction of one and a half hour each week and a leadership lab. Students incur no military commitment by participating in the Basic Course. In lieu of attending the basic course classroom instruction, a student may attend the four-week Leadership Training Course at Fort Knox, Kentucky during the summer of the student’s sophomore year.

Advanced Course

The Advanced Course consists of four semesters of classroom instruction of three hours each week, leadership lab, physical fitness and field training exercises, and a five-week training phase at Leadership Development and Assessment Course. Students registering for the Advanced Course must have met all requirements for Basic Course completion. The Advanced Course is designed to prepare the student who desires to be a Professional Army Officer for duty in the Active Army, Reserve or National Guard. Additional training is available to selected Cadets at both US based and overseas active Army units.

Job Opportunities

The newly commissioned Officer can be guaranteed Reserve or National Guard duty, or compete for an Active Duty commission. Prior to commissioning, the student may request to serve in a number of career fields to include aviation, infantry, armor, engineering, medical, law enforcement, logistics, and personnel administration.

Requirements for an ROTC Commission

Students who desire to earn a commission as a Second Lieutenant in the United States Army must meet the following requirements: four semesters of the ROTC Advanced Course, successful completion of the Professional Military Education Courses (written communication skills, computer literacy, and military history), attendance at Leadership Development and Assessment Course, maintain and graduate with a minimum of a 2.0 GPA, successful completion of the Army Physical Fitness Test, compliance with the Army height and weight standards, and other requirements of the United States Army.

Requirements for the Minor in Military Science (MTY)

The minor in Military Science entails an 18-hour program organized and coordinated through the Department of Military Science. A minimum of 14 of the 18 hours must be earned at USF and the student must maintain a 2.0 GPA in the minor. A minimum grade of C or better must be maintained in each course. S grades will not be accepted. This program is designed to provide the student with an in-depth understanding of Army leadership doctrine and the fundamental principles by which Army leaders act to accomplish their mission. This minor lays out a leadership framework that allows students to apply leadership concepts learned in the classroom. Additional emphasis is placed on character development, oral and written communication, physical and mental fitness, and military small unit operations.

Required courses (14 credit hours):

- MSL 3201C Adaptive Team Leadership
- MSL 3202C Leadership in Changing Environments
- MSL 4301C Developing Adaptive Leaders
- MSL 4302C Leadership in a Complex World
- MSL 2900* Army Physical Readiness

*repeated for two semesters; may be repeated up to four semesters, however only two credits will count toward minor

Electives (4 credit hours):

- MSL 1001C Leadership and Personal Development
- MSL 1002C Introduction to Tactical Leadership
- MSL 2101C Innovative Team Leadership
- MSL 2102C Foundations of Tactical Leadership
### Military Science Faculty

**Professor:** LTC A. Espinosa; **Assistant Professors:** MAJ B. Dunker, MAJ S. Dunkle, MSG J. Brennan, MSG(R) W. Patterson, SFC J. Stapel, MAJ(R) J. Livingston, 2LT T. Schnaufer, 1LT J.E. Schulze, SFC M. Ramirez.

### Naval Science

#### Naval ROTC

**Location/Phone:** CWY 406; (813) 974-4789  
**Web Address:** [http://web.usf.edu/nrotc](http://web.usf.edu/nrotc)  
**Contact Email:** naval@nrotc.usf.edu

The Naval Science Program at the University of South Florida is administered by the Naval Reserve Officers Training Corps (NROTC) Unit. This program affords selected men and women the opportunity to receive instruction in Navy specified courses which, in conjunction with the baccalaureate degree, will qualify them for a commission in the United States Navy or Marine Corps. Students enrolled in the university who are physically and mentally qualified are eligible to apply for the NROTC program. As naval officers, USF NROTC graduates become eligible for varied careers, serving in aviation squadrons, on surface ships, on submarines in the nuclear power program, at naval installations all over the world, or in the numerous sub-specialties as an officer of the Marines Corps. With the consent of the Professor of Naval Science, any student, although not enrolled in the NROTC program, is eligible for enrollment in naval science courses. The USF NROTC Unit offers participation through three programs: (1) the Navy-Marine Corps Scholarship Program, (2) the Navy-Marine Corps College Program, and (3) the Two-Year NROTC Scholarship Program.

#### The Navy-Marine Corps Four-Year Scholarship Program

The NROTC National Scholarship Program is open to young men and women of all races, creeds, and national origin who are United States citizens. Students are selected on their own merit to become officers in the United States Navy and Marine Corps. Scholarship students are appointed Midshipmen, U.S. Navy Reserve. The Navy pays for tuition, fees, textbooks, uniforms, and a monthly subsistence allowance of up to $400.00 for four years. Scholarship students are normally selected through national competition during their senior year in high school. Each year, ten Professor of Naval Science scholarships are available through a competitive selection process to Black and Hispanic students with academic potential who have yet to demonstrate their performance in a college environment or who have completed at least one, but not more than two semesters of course work at the university with a cumulative GPA of 3.0 or better and with no grade below "C". Although it is not a requirement, a student in the NROTC Scholarship Program is encouraged to pursue a major in engineering, mathematics, chemistry, or physics to meet the technological requirements of the Navy. Other fields of study for a major leading to a Baccalaureate degree are permitted, with the approval of the Professor of Naval Science. Regardless of the major, every scholarship student must complete one year of physics and one year of calculus.

Students must include certain Navy specified courses in their program and complete a program of courses as prescribed by the professor of naval science. Upon graduation, and successful completion of the naval science curriculum, the midshipman will receive a commission as Ensign in the U.S. Navy or Second Lieutenant in the U.S. Marine Corps and serve on active duty for a minimum of five years for Navy option and four years for Navy Nurse and Marine option.

#### The Navy-Marine Corps Four-Year College Program

The NROTC College Program is designed to train and educate well-qualified young men and women for commissioning. Selected students are appointed as midshipmen in the Naval Reserve prior to commencement of the advanced course in the junior year. The Navy pays for uniforms and naval science textbooks for the freshman and sophomores each year. Each student is eligible to apply for a two- or three-year Sideload Scholarship through the NROTC unit based on past academic performance, potential, physical fitness and advisor evaluations. This scholarship covers tuition, fees, books and a stipend akin to the 4-Year Scholarship Program. Other students may receive Advanced
Standing which only provides a stipend. Those students who do not obtain a Sideload Scholarship or Advanced Standing by their junior year will be dropped from the program. A college program midshipman only acquires a military service obligation after entering the advanced courses at the beginning of the junior year.

Although there are no restrictions on the major college program students may pursue, it is highly recommended that they pursue a course of study similar to that of scholarship students. Students must also include in their program certain Navy specified courses and a program of courses in naval science. Students, upon graduation and successful completion of the naval science curriculum, receive a commission as an Ensign in the U.S. Navy or a Second Lieutenant in the U.S. Marine Corps and serve on active duty for a minimum of five years.

Two-Year NROTC Scholarship Program

The two-year scholarship program is offered on a limited basis specifically for students commencing their third year of college, who were not enrolled in the NROTC program during their freshman and sophomore years. Applications must be submitted during the sophomore year by the first of March to permit processing, personal interviews, and a physical examination. Qualifications for acceptance to this program include demonstrated ability to excel in a math, physical science, or engineering major and who has demonstrated above average performance in integral calculus. Upon acceptance into this program, the student attends a six-week intensive course at the Naval Science Institute in Newport, Rhode Island, in the summer prior to commencing the junior year of study. Students in a five-year engineering curriculum may attend the institution between their third and fourth years. The six-week summer course qualifies the student for enrollment in the NROTC program at the junior level and will be awarded a full tuition scholarship to include books, lab fees and a monthly stipend.

Regardless of the major, every scholarship student must complete one year of calculus-based physics and one year of calculus. Students must include certain Navy specified courses in their program and complete a program of courses as prescribed by the Professor of Naval Science. Upon graduation, and successful completion of the naval science curriculum, the midshipman will receive a commission as an Ensign in the U.S. Navy and serve on active duty for a minimum of five years for Navy option and four years for Navy Nurse and Marine option.

Summer Training

The NROTC Scholarship Program student is required to complete training of approximately four weeks during each of the three summer recesses. During the first summer period, each scholarship student will receive instruction in aviation training, marine combat training, surface warfare indoctrination, and submarine indoctrination either in Norfolk, Virginia or San Diego, California. The second summer training period will be performed aboard operational ships of the U.S. Fleet. During the third summer, candidates for U.S. Navy commissions will perform training aboard operational ships or aviation squadrons as a junior officer. The student who qualifies for nuclear propulsion training may elect to cruise on nuclear powered ships or submarines. Some midshipmen cruise with allied navies through the Midshipman Foreign Exchange Program. Transportation costs to and from the training sites, subsistence, quarters, and pay of approximately $365 per month will be paid to every participating student. The candidates for U.S. Marine Corps commissions will perform training at the U.S. Marine Corps Base, Quantico, Virginia. The Marine Option NROTC Summer Training Program, “OCS,” is a six-week training program designed to prepare midshipmen for appointment to commissioned grade by providing basic military instruction and physical training. An evaluation of midshipmen is made to ensure that they possess the leadership, academic, and physical qualifications required for appointment to commissioned grade in the Marine Corps Reserve. Female midshipmen participate in all NROTC curriculum requirements and activities, including cruises aboard selected ships. A woman who has qualified for Marine Option NROTC Summer Training at Quantico attends the Woman Officer Candidate Course in Quantico, Virginia.

Specified University Courses

In addition to satisfying requirements for a Baccalaureate degree, the student must satisfactorily complete the following four-year curriculum guide, including required naval science courses and specified university courses.

Freshman Year:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSC 1110</td>
<td>Introduction to Naval Science (See Note 1)</td>
</tr>
<tr>
<td>NSC 1101L</td>
<td>Naval Science Laboratory</td>
</tr>
<tr>
<td>NSC 1140</td>
<td>Sea Power and Maritime Affairs (See Note 1)</td>
</tr>
</tbody>
</table>

Sophomore Year:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2311</td>
<td>Calculus I and MAC 2312 Calculus II</td>
</tr>
<tr>
<td>MAC 2281</td>
<td>Engineering Calculus I and MAC 2282</td>
</tr>
<tr>
<td>NSC 1101L</td>
<td>Naval Science Laboratory</td>
</tr>
<tr>
<td>NSC 2212C</td>
<td>Navigation/Naval Operations I: Navigation</td>
</tr>
<tr>
<td>NSC 2220</td>
<td>Evolution of Warfare (See Note 3)</td>
</tr>
<tr>
<td>NSC 2231</td>
<td>Principles of Naval Management I (See Note 1)</td>
</tr>
</tbody>
</table>

Junior Year:
NSC 1101L Naval Science Laboratory
NSC 2121 Naval Ships System I (See Note 2)
NSC 3123 Naval Ships Systems II (See Note 2)
PHY 2048 and PHY 2049 Physics I and II (See Note 4)

Senior Year:
NSC 1101L Naval Science Laboratory
NSC 3214C Navigation/Naval Operations II: Seamanship & Ship Operations (See Note 2)
NSC 4224 Amphibious Warfare (See Note 3)
NSC 4232 Principles of Naval Management II

NOTES:
1. Undergraduate Naval Sciences required to be completed for all students before Fall semester junior year.
2. Upper-division Naval Science courses required of Navy Options and not required of Marine Options.
3. Required of Marine Option midshipmen only.
4. One year of each calculus and calculus-based physics is required for every Navy option scholarship student.
   It is recommended, but optional for College Program and Marine Options.

Furnished Items
All uniforms, textbooks, and equipment needed by the student for naval science courses are furnished by the Navy.

Use of Navy Science Courses as University Electives
Academic departments within the university may, according to their own policies, accept naval science courses as electives to fulfill requirements in their academic program.

Naval Science Minor
Upon successful completion of the four-year Naval Science Program, a student may be awarded a minor in Naval Science. Specific requirements should be arranged with the student’s academic department.

Naval Science Laboratory
The naval science curriculum includes a weekly three-hour laboratory covering professional and military subject matter. Attendance is mandatory for all midshipmen.

Requirements for the Minor in Naval Science and Leadership (NSL)
The minor in Naval Science and Leadership entails an 18-hour program organized and coordinated through the Department of Naval Science. A minimum of 14 of the 18 credit hours must be earned at USF and the student must maintain a 2.0 GPA in the minor. A minimum grade of "C" or better must be maintained in each course. "S" grades will not be accepted. This program is designed to provide the student with an in-depth understanding of Naval leadership doctrine and the fundamental principles by which Navy and Marine Corps leaders act to accomplish their mission. The minor lays out a framework by which the Navy and Marine Corps conduct routine operations and planning and it also provides a foundation in design theory with a practical application to naval platforms and weapon systems. Special emphasis is placed on character development and effective communication skills.

Required courses (12 credit hours):
NSC 1110 Introduction to Naval Science
NSC 1140 Sea Power and Maritime Affairs
NSC 2231 Principles of Naval Management I
NSC 4232 Principles of Naval Management II

Electives (6 credit hours):
NSC 2121 Naval Ship Systems I
NSC 2212C Navigation/Naval Operations I: Navigation
NSC 2221 Evolution of Warfare
NSC 3123 Naval Ship Systems II
NSC 3214C Navigation/Naval Operations II: Seamanship and Ship Operations
NSC 4224 Amphibious Warfare

Naval Science Faculty
Professor: K. Kenney; Assistant Professors: C. Walters, I. Hayes, B. Hawkins, J. Diehl.
Office for Undergraduate Research

Location/Phone: LIB 210; (813) 974-6842
Web Address: [http://lib.usf.edu/undergraduate-research/](http://lib.usf.edu/undergraduate-research/)
Contact Email: ur@ur.usf.edu

The Office for Undergraduate Research (OUR) promotes mentored research across all disciplines by partnering with faculty and staff in all academic programs, administrative units and within the community. The office assists students, faculty, staff, administrators and community leaders in establishing research experiences that are designed to enhance a student’s academic progression and foster deeper immersion in the field. The office elevates the research experience by providing all participants professional development and mentoring workshops, research training, publication and funding opportunities. Located on the second floor of the Tampa campus library, the office offers a variety of resources and services to assist student researchers. OUR services include:

- research self-assessment tools and other resources that support development of a research plan
- a comprehensive workshop series that assists students in getting started in research and researching mentors
- listing of research positions across multiple disciplines
- research consultation with OUR staff
- assistance with setting up 0-credit and for-credit research courses that will track on the transcript
- numerous scholarships that support research activities

The Office for Undergraduate Research hosts the annual Undergraduate Research and Art Colloquium, which provides an opportunity for undergraduate students across all disciplines to present their current research and interact with faculty, community leaders and peers. Students who participate in undergraduate research and utilize the services of the OUR will develop critical thinking skills, show better academic performance, gain invaluable experience, learn to bring research to their conversation and develop mentoring relationships that last for a lifetime.
Courses offered for credit by the University of South Florida are listed on the following pages in alphabetical order by college and subject area. The first line of each description includes the State Common Course prefix and number (see below), title of the course, and number of credits.

Credits separated by commas indicate unified courses offered in different semesters:

AMH 2010, 2020 AMERICAN HISTORY I, II (4,4)

Credits separated by a hyphen indicate variable credit.

HUM 4905 DIRECTED RESEARCH (1-5)

The abbreviation "var." also indicates variable credit.

MAT 7912 DIRECTED RESEARCH (var.)

The following abbreviations are utilized in various course descriptions:

PR Prerequisite  
CI With the consent of the instructor  
CC With the consent of the chairperson of the department or program  
CP Co-prerequisite  
CR Co-requisite  
DPR Departmental Permit Required  
S/U S/U Grade System  
Lec Lecture  
Lab Laboratory

SPECIAL INFORMATION COURSE CODES

6A Courses to satisfy Rule 6A (Gordon Rule)

Foundations of Knowledge and Learning Core Curriculum Requirements – for students graduating under the 2009-2010 and subsequent USF Undergraduate Catalogs:

CAEC English Composition  
CAFA Fine Arts  
CAGC Human & Cultural Diversity in a Global Context  
CAHU Humanities  
CAMA Mathematics  
CANL Natural Sciences (Life Science)  
CANP Natural Sciences (Physical Science)  
CAQR Quantitative Reasoning  
CASB Social & Behavioral Sciences  
HHCP Human Historical Context & Process

Exit Requirements – for students graduating under the 2009-2010 and subsequent USF Undergraduate Catalogs:

CPST Capstone – 3 credits and  
WRIN Writing Intensive – 3 credits

MW Course fulfills part of the Liberal Arts Exit Requirement for Major Works & Major Issues

Five-Year Course Deletion Rule

In compliance with State of Florida Department of Education rule 6A-10.0331, USF undergraduate courses not taught for five years, or fewer if desired, are deleted from the Undergraduate Catalog.

The University reserves the right to substitute, not offer, or add courses that are listed in this catalog.
## General Course Information

### Alphabetical Listing of Departments and Programs

Course descriptions are listed by college under the following department and program headings:

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General Course Information

COLLEGE OF BUSINESS (BA)
Accounting ACG, TAX
Finance FIN, REE
General Business BUL, GEB
Information Systems & Decision Sciences CGS, ISM, MAN, QMB
Management ENT, MAN
Marketing MAR

COLLEGE OF EDUCATION (ED)
Adult, Career & Higher Education ADE, ECT, ECW, ETE, EVT
Childhood Education & Literacy Studies EDE, EDG, EEC, HLP, LAE, RED
Early Childhood Education EDE, EEC, LAE
Elementary Education HLP, MAE, RED, SCE, SSE
Instructional Technology EME
Mathematics Education MAE
Measurement-Research EDF
Physical Education-Elective HLP, PEL, PEM, PEN
Physical Education-Professional APK, HSC, PET, SPM
Psychological & Social Foundations of Education EDF, EDG, IDS, MHS
Science Education SCE
Secondary Education EME, ESE, FLE, LAE, MAE, MAT, RED, SCE, SSE, TSL
Social Science Education SSE
Special Education EDB, EEX, EGI, EMR, EPD

COLLEGE OF ENGINEERING (EN)
Chemical & Biomedical Engineering BME, ECH, EMA, EVR
Civil & Environmental Engineering CCE, CEG, CES, CGN, CWR, EGN, EMA, ENV, SUR, TTE
Computer Science & Engineering CAP, CDA, CEN, CGS, CIS, CNT, COP, COT, EEL, ETG
Electrical Engineering EEE, EEL
Industrial & Management Systems EIN, ESI
Interdisciplinary Engineering EGN, EGS
Mechanical Engineering EAS, EML, OSE

HONORS COLLEGE (HC)
Honors College IDH

COLLEGE OF MEDICINE (MD)
Athletic Training APK, ATR
Medical Sciences BMS

COLLEGE OF NURSING (NR)
Nursing BSC, HUN, MCB, NGR, NSP, NUR

COLLEGE OF PUBLIC HEALTH (PH)
Community & Family Health HSC, PHC, MHS
Environmental & Occupational Health HSC, PHC
Epidemiology & Biostatistics PHC
Public Health HAS, HSC, PHC
## General Course Information

### College of The Arts (FA)
- Architecture: ARC
- Art & Art History: ARH, ART, FIL, GRA, PGY
- Dance: DAA, DAE, DAN
- Fine Arts Interdisciplinary: IDS
- Music/Music Education: MUC, MUE, MUG, MUH, MUL, MUN, MUO, MUS, MUT, MVB, MVJ, MVK, MVP, MVS, MVV, MVW
- Theatre/Theatre Education: THE, TPA, TPP

### Undergraduate Studies (US)
- Aerospace Studies (Air Force ROTC): AFR
- Cooperative Education: IDS
- Information Technology: ETG, HUN, IDS, MAS, PCB, SLS
- Leadership Studies: LDR
- Military Science (Army ROTC): MSL
- Naval Science (Navy ROTC): NSC
- Reading: REA
- Undergraduate Research: IDS
- University Experience: SLS
### General Course Information

**UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG**

#### Listing Departments/Program Alphabetically by Prefix

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<td>ECH</td>
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<tr>
<td>EDE</td>
<td>Childhood Education &amp; Literacy Studies</td>
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<tr>
<td>EDF</td>
<td>Psychological &amp; Social Foundations of Education, Measurement-Research</td>
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<td>EDG</td>
<td>Childhood Education &amp; Literacy Studies, Psychological &amp; Social Foundations</td>
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<td>EEE</td>
<td>Electrical Engineering</td>
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<td>EEL</td>
<td>Computer Science &amp; Engineering, Electrical Engineering, Information Technology</td>
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<tr>
<td>EEX</td>
<td>Special Education</td>
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<td>EGI</td>
<td>Special Education</td>
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<tr>
<td>EGN</td>
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<td>EGS</td>
<td>Interdisciplinary Engineering</td>
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<td>EIN</td>
<td>Industrial &amp; Management Systems Engineering, Information Technology</td>
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<td>EMA</td>
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<td>ESI</td>
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</tbody>
</table>
## General Course Information

**UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Code</th>
<th>Department / Program</th>
</tr>
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<tbody>
<tr>
<td>ETG</td>
<td>Computer Science &amp; Engineering, Information Technology</td>
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<tr>
<td>ETI</td>
<td>Information Technology</td>
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<td>EAH</td>
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<td>ESV</td>
<td>International Studies</td>
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<tr>
<td>EVR</td>
<td>Chemical &amp; Biomedical Engineering, Environmental Science &amp; Policy</td>
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<td>EVT</td>
<td>Adult, Career &amp; Higher Education</td>
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<tr>
<td>EXP</td>
<td>Psychology</td>
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<tr>
<td>FIL</td>
<td>Art &amp; Art History, Humanities &amp; Cultural Studies, Mass Communications</td>
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<td>FIN</td>
<td>Finance</td>
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<td>FLE</td>
<td>Secondary Education</td>
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<td>GEB</td>
<td>General Business Administration</td>
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<td>GEO</td>
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<td>GEY</td>
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<td>Geography</td>
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<td>GLY</td>
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<td>Greek (Classics), Religious Studies</td>
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<td>World Languages</td>
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<td>GRW</td>
<td>Greek (Classics)</td>
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<td>HSC</td>
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<td>HUM</td>
<td>Humanities &amp; Cultural Studies</td>
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<td>Nursing, Undergraduate Studies</td>
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<td>IDH</td>
<td>Honors College</td>
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<td>Art &amp; Art History, Community Experiential Learning, Cooperative Education, Fine Arts Interdisciplinary, FMHI, Interdisciplinary Arts &amp; Sciences, Psychological &amp; Social Foundations of Education, Undergraduate Studies</td>
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<td>INP</td>
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<td>International Studies, Political Science</td>
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<td>INT</td>
<td>Communication Sciences &amp; Disorders</td>
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<td>ISC</td>
<td>Interdisciplinary Studies</td>
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<td>ISM</td>
<td>Information Systems &amp; Decision Sciences</td>
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<td>ISS</td>
<td>Africana Studies, Interdisciplinary Social Sciences</td>
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<td>ITA</td>
<td>World Languages</td>
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<td>World Languages</td>
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<tr>
<td>JOU</td>
<td>Mass Communications</td>
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</table>

| JPN  | World Languages |
| LAE  | Early Childhood Education, Secondary Education |
| LAH  | History |
| LAS  | Africana Studies, International Studies |
| LAT  | Latin (Classics) |
| LDR  | Leadership Studies |
| LIN  | English, World Languages |
| LIS  | Information Studies |
| LIT  | English |
| LNW  | Latin (Classics) |
| MAA  | Mathematics |
| MAC  | Mathematics |
| MAD  | Mathematics |
| MAE  | Elementary Education, Mathematics, Mathematics Education |
| MAN  | Information Systems & Decision Support, Information Technology, Management |
| MAP  | Mathematics |
| MAR  | Marketing |
| MAS  | Mathematics, Undergraduate Studies |
| MAT  | Mathematics, Secondary Education |
| MCB  | Biology, Nursing |
| MEL  | Medical Sciences |
| MGF  | Mathematics |
| MHS  | Child & Family Studies, FMHI, Psychological & Social Foundations of Education, Rehabilitation & Mental Health Counseling |
| MLS  | Chemistry |
| MMC  | Mass Communications |
| MSL  | Military Science (Army ROTC) |
| MTG  | Mathematics |
| MUC  | Music/Music Education |
| MUE  | Music/Music Education |
| MUG  | Music/Music Education |
| MUH  | Music/Music Education |
| MUL  | Music/Music Education |
| MUN  | Music/Music Education |
| MUO  | Music/Music Education |
| MUS  | Music/Music Education |
| MUT  | Music/Music Education |
| MUB  | Music/Music Education |
| MVJ  | Music/Music Education |
| MK  | Music/Music Education |
| MVP  | Music/Music Education |
| MVS  | Music/Music Education |
| MVE  | Music/Music Education |
| MWF  | Music/Music Education |
| MWD  | Music/Music Education |
| NSC  | Naval Science (Navy ROTC) |
| NSP  | Nursing |
| NUR  | Nursing |
| OCE  | Marine Science |
| OSE  | Mechanical Engineering |
| ORI  | Communication |
## General Course Information

### COURSE LEVEL DEFINITION

**Lower Level:**
- 0000-1999 Freshman Level
- 2000-2999 Sophomore Level

**Upper Level:**
- 3000-3999 Junior Level
- 4000-4999 Senior Level

**Graduate Level:**
- 5000-5999 Senior/Graduate Level
- 6000-Up Graduate Level
General Course Information

Florida’s Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida’s Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 33 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

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. The list of course prefixes and numbers, along with their generic titles, is referred to as the “SCNS taxonomy.” Descriptions of the content of courses are referred to as “course equivalency profiles.”

General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions. (Exceptions are listed below.)

For example, a survey course in social problems is offered by 35 different postsecondary institutions. Each institution uses “SYG_010” to identify its social problems course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, “SYG” means “Sociology, General,” the century digit “0” represents “Entry-level General Sociology,” the decade digit “1” represents “Survey Course,” and the unit digit “0” represents “Social Problems.”

In science and other areas, a “C” or “L” after the course number is known as a lab indicator. The “C” represents a combined lecture and laboratory course that meets in the same place at the same time. The “L” represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one institution to another is guaranteed in cases where the course to be transferred is equivalent to the one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 2010. A student who has successfully complete SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent.

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or subcategory 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

Section 1007.24(7), Florida Statutes, states:

Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure
General Course Information

that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency

The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution:

A. Courses in the 900-999 series (e.g., ART 2905)
B. Internships, practica, clinical experiences, and study abroad courses
C. Performance or studio courses in Art, Dance, 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 course may not be used to meet degree requirements and are not transferable.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to the Office of the Dean, Undergraduate Studies in SVC 2003 at the University of South Florida or the Florida Department of Education, Office of Articulation, 1401 Turlington Building, 325 West Gaines Street, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling telephone number (850) 245-0427.
## COURSE DESCRIPTIONS

### ACG 2021 Principles of Financial Accounting (3) BA ACC
Study of basic accounting principles including the recording and reporting of financial activity. The preparation and interpretation of financial statements.

### ACG 2071 Principles of Managerial Accounting (3) BA ACC
PR: ACG 2021 with a grade of C- or better. A study of the accountant's role in assisting management in the planning and controlling of business activities.

### ACG 3074 Managerial Accounting for Non-Business Majors (3) BA ACC
Does not count towards major or CPA requirements. Not available for credit for Business majors. The study of the uses of accounting data internally by managers in planning and controlling the affairs of organizations.

### ACG 3103 Intermediate Financial Accounting I (3) BA ACC
PR: ACG 2021 with a grade of C or better, not C-. A study of financial and managerial accounting, and auditing, principles and theory to both governmental and not-for-profit entities.

### ACG 3113 Intermediate Financial Accounting II (3) BA ACC
PR: ACG 3103 with a grade of C or better, not C-. 
Continuation of ACG 3103. Topics covered include property, plant and equipment, intangibles, current liabilities, long-term debt, leases, tax allocation, statement of cash flows.

### ACG 3341 Cost Accounting and Control I (3) BA ACC
PR: ACG 2021 and ACG 2071 with a grade of C or better, not C-. Deals with cost accounting systems for different entities, cost behavior patterns, cost-volume-profit analysis, relevant information for decision making, and budgets and standard costs for planning and control.

### ACG 3401 Accounting Information Systems (3) BA ACC
PR: ACG 3103 with a grade of C or better, not C-. This course provides students with a basic understanding of well-controlled information systems in a variety of technological environments with added emphasis on the collection, processing, and reporting of accounting information.

### ACG 4123 Intermediate Financial Accounting III (3) BA ACC
PR: ACG 3113 with a grade of C or better, not C-. Theory and practice underlying stockholders' equity, dilutive securities and EPS, derivatives, revenue recognition, post-retirement benefits, error analysis, full disclosure, and other current accounting topics.

### ACG 4351 Cost Accounting And Control II (3) BA ACC
PR: ACG 3103 and ACG 3341 with a grade of C or better, not C-. Application of the material covered in ACG 3341 with specific emphasis on cost allocations, performance measurements, analysis of current cost accounting systems and accounting in today's environment (giving consideration to the influences of the international environment).

### ACG 4501 Governmental/Not-for-profit Accounting (3) BM ACC
PR: ACG 3113 (C or better). Application of financial and managerial accounting, and auditing, principles and theory to both governmental and not-for-profit entities.

### ACG 4632 Auditing I (3) BA ACC
PR: ACG 3113 and ACG 3401. This course provides a sound conceptual foundation of basic auditing process from the perspective of the public accounting profession. Professional standards, ethics, legal responsibilities, and the utilization of technology are addressed.

### ACG 4642 Auditing II (3) BA ACC
PR: ACG 4632 with a grade of C or better, not C-. Further development of material covered in ACG 4632, with special emphasis on additional reporting topics and audit techniques not previously addressed.

### ACG 4901 Independent Study (1-3) BA ACC
PR: Consent of Director. S/U only. Specialized independent study determined by the students' needs and interests.

### ACG 4911 Independent Research (1-4) BA ACC
PR: Consent of Director. Individual study contract with instructor and director required. The research project will be mutually determined by the student and instructor.

### ACG 4931 Selected Topics In Accounting (1-4) BA ACC
The course content will depend on student demand and instructor's interest.

### ACG 4970 Accounting Honors Thesis (3) BA ACC
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

### ADE 4384 Working With the Adult Learner (3) ED EDV
An investigation of the needs of the adult learner.
### COURSE DESCRIPTIONS

**ADV 3008 Introduction to Advertising (3) AS COM**
PR: MMC 2100 and MMC 3602. A study of the structures, functions, and persuasive language of advertising in mass media with attention to social, political, economic, and legal aspects.

**ADV 3101 Advertising Creativity (3) AS COM**
PR: ADV 3008 and ECO 1000. Study of copywriting and art direction in the creation of advertising messages for alternative media platforms. Restricted to majors only.

**ADV 3200 Advertising Design (3) AS COM**
PR: ADV 3008 (for advertising sequence majors) or VIC 3001 (for other Mass Comm majors). Application of graphic design principles to various areas of advertising. Combining visual and verbal elements effectively.

**ADV 3300 Advertising Media Strategy (3) AS COM**
PR: ADV 3008 and ECO 1000. Problems, techniques, strategy of media research, planning, budgeting and effective utilization in advertising.

**ADV 3500 Advertising Research (3) AS COM**
PR: ADV 3008. Overview of scientific research methods as used in advertising. Emphasis on the acquisition, analysis, and evaluation of primary and secondary data, and the principles and survey and experimental research.

**ADV 4204 Advanced Advertising Creativity (3) AS COM**
PR: ADV 3101, ADV 3300, ADV 3500, ECO 1000, MAR 3023. Focused on producing advertising messages, the curriculum integrates: ethics, branding, consumer insight, message strategy, concepting, persuasion, copywriting, design, and presentations. Students learn to execute effective advertising messages.

**ADV 4301 Advanced Media Strategy (3) AS COM**
PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023. Emphasizing decision making and critical thinking, this advanced course prepares students for the complexities of advertising media planning, implementation, and evaluation.

**ADV 4310 Digital Media (3) AS COM**
PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023. This course focuses on the impact of new communication technologies on consumer behavior and advertising practice. Students will learn the nature of digital media options and how to incorporate them into advertising planning.

**ADV 4600 Advertising Management (3) AS COM**
PR: ADV 3008, ADV 3101, ADV 3300. Application of analytical planning concepts to advertising planning and decision-making. Case study method used to explore advertising and promotional programs; media and creative strategies; consumer, retail, industrial, and public service applications.

**ADV 4710 Portfolio Building (3) AS COM**
PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023. This course goes beyond the basics of copy and layout to develop a broader understanding of the creative advertising process. It stresses creativity and organizational ability in portfolio building, along with technical skills in portfolio production.

**ADV 4800 Advertising Campaigns (3) AS COM**
PR: ADV 3101, ADV 3300, ADV 3500, ECO 1000, MAR 3023. Advanced advertising course requiring planning and production of complete general advertising campaigns, including research, production methods, budgeting, and media schedules.

**ADV 4940 Advertising Practicum (1) AS COM**
PR: CI. For advertising sequence majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

**AFA 2000 Introduction to the Black Experience [In Africa and Its Diaspora] 6A AP CASB (3) AS AFA**
Fundamental perspectives on the nature and significance of the Black Experience in Africa and black communities in the Americas.

**AFA 2380 History and Theory of Genocide CAGC (3) AS AFA**
This course examines the concept of genocide; its origins in human history and the evolution of international law aimed at defining and criminalizing genocide.

**AFA 4150 Africa and the United States 6A SS HP AP (3) AS AFA**
An examination of the historical and current political, economic, and cultural relations between the United States and Africa.

**AFA 4335 Black Women in America 6A MW CPST (3) AS AFA**
An interdisciplinary survey of the contemporary experience of black women in America, including the African roots, myths, and realities surrounding that experience.

**AFA 4350 African American Community Research MW (3) AS AFA**
This interactive, field experience course introduces students to active and applied research methodologies and the uses of this research in Black urban communities.

**AFA 4430 Afro-Diasporic Literature and Political Movements CPST HHCP (3) AS AFA**
The course studies the literary and socio-political movements of the Black Diaspora, dating from the 19th to the 20th century. Centered within a diasporic approach, it offers a comparative examination of literary, historical, and theoretical works.

**AFA 4500 Slavery in the Americas and the Caribbean MW (3) AS AFA**
This course examines the institution of enslavement...
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<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>AFA 4900</td>
<td>Directed Readings</td>
<td>(2-3) AS AFA Independent readings in a particular area of African and African American Studies, selected by student and instructor.</td>
</tr>
<tr>
<td>AFA 4931</td>
<td>Selected Topics in Africana Studies</td>
<td>(1-3) AS AFA Topics offered are selected to reflect student needs and faculty interests. In depth study in such areas as the Black Student and the American Educational Process; the Black Experience in the Americas; European Expansion in Africa to 19th century; Contemporary Economic Problems in Africa.</td>
</tr>
<tr>
<td>AFR 2001</td>
<td>Air Force ROTC Leadership Laboratory</td>
<td>Rpt. Up to 12 hours as topics vary.</td>
</tr>
<tr>
<td>AFR 3100</td>
<td>African History to 1850 HP CAHU HHCP (3) AFA</td>
<td>Introductory survey of African history, from the beginning of the continent's recorded history, to 1850. Course teaches skills reflected in the core foundations of knowledge in the General Education Curriculum.</td>
</tr>
<tr>
<td>AFR 3200</td>
<td>African History since 1850 HP CAHU HHCP (3) AFA</td>
<td>Introductory survey of the history of Africa since 1850. Course looks at the state of the African continent in 1850 and the local and global factors that have shaped Africa's history since that time.</td>
</tr>
<tr>
<td>AFR 1101</td>
<td>The Foundation of the United States Air Force Pt 1 (1) US AFR</td>
<td>Intro Air Force Reserve Officer Training Corps (AFROTC) &amp; US Air Force (USAF) includes lessons in officer/professionalism and an intro to communication skills. AFR 2001 Lead Lab augments course providing followership and leadership experiences.</td>
</tr>
<tr>
<td>AFR 1120</td>
<td>The Foundations of the United States Air Force Pt 2 (1) US AFR</td>
<td>A study of Air Force installations, Core Values, Leadership, Team Building, and Diversity within Armed Forces. AFR 2001 Lead Lab augments course providing followership and leadership experiences, utilizing leadership and management principles.</td>
</tr>
<tr>
<td>AFR 1903</td>
<td>Directed Independent Studies</td>
<td>(1-4) US AFR PR: DPR Directed Independent Study.</td>
</tr>
<tr>
<td>AFR 2001</td>
<td>Air Force ROTC Leadership Laboratory</td>
<td>(0) US AFR Leadership Laboratory is required for each of the Aerospace Studies courses. It meets one hour and 45 minutes per week. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop each student's leadership potential. Leadership Laboratory involves a study of Air Force customs and courtesies; drill and ceremonies; career opportunities in the Air Force; and the life and work of an Air Force junior officer. Students develop their leadership potential in a practical laboratory, which typically includes field trips to Air Force installations.</td>
</tr>
<tr>
<td>AFR 2130</td>
<td>Evolution of USAF Air and Space Power, Part I (1) US AFR</td>
<td>CR: AFR 2000, AFR 2001. A study of air power from balloons and dirigibles through the jet age. Emphasis is on the employment of air power in WWI and WWII and how it affected the evolution of air power concepts and doctrine.</td>
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<tr>
<td>AFR 3220</td>
<td>Air Force Management and Leadership I (3) US AFR</td>
<td>CR: AFR 2000, AFR 2001. An integrated management course emphasizing the individual as a manager in an Air Force milieu. The individual motivational and behavioral processes, leadership, communication, and group dynamics are covered to provide a foundation for the development of the junior officer's professional skills as an Air Force officer (officership). The basic managerial processes involving decision making, utilization of analytic aids in planning, organizing, and controlling in a changing environment are emphasized as necessary professional concepts.</td>
</tr>
<tr>
<td>AFR 3231</td>
<td>Air Force Management and Leadership II (3) US AFR</td>
<td>CR: AFR 2000, AFR 2001. A continuation of the study of Air Force advancement and leadership. Concentration is on organizational and personal values, management of forces in change, organizational power, politics, and managerial strategy and tactics are discussed within the context of the military organization. Actual Air Force cases are used to enhance the learning and communication processes.</td>
</tr>
<tr>
<td>AFR 4211</td>
<td>National Security Affairs &amp; Preparation for Active Duty II (3) US AFR</td>
<td>CR: AFR 2000, AFR 2001. Cont study national sec proc. reg studies, adv leader ethics,&amp; AF doct. Spec topics include reg stud Europe, Mid East, Russia (former Soviet Republics), perform feedback, effective performance report writing, enl/off eval sys, ops risk mngmt to prep students for active duty.</td>
</tr>
</tbody>
</table>
## COURSE DESCRIPTIONS

### UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMH 3140</td>
<td>The Age of Jefferson (3) AS HTY</td>
<td></td>
<td>A study of America from the end of Reconstruction to World War I. Ranging over political, social, and international developments, the course covers industrialization, immigration, unions, reform, feminism, race relations and imperialism.</td>
</tr>
<tr>
<td>AMH 3110</td>
<td>American Colonial History to 1750 (3) AS</td>
<td></td>
<td>Examines the significance of loyalism, violence, and the establishment of the federal system. Also focuses on the nature of the American revolution, the nature of Constitution-making, and the establishment of the federal system. Also examines the significance of loyalism, violence, and slavery in American society from 1750-1789.</td>
</tr>
<tr>
<td>AMH 3130</td>
<td>The American Revolutionary Era (3) AS HTY</td>
<td></td>
<td>Emphasis on the causes of the American revolution, the nature of Constitution-making, and the establishment of the federal system. Also examines the significance of loyalism, violence, and slavery in American society from 1750-1789.</td>
</tr>
<tr>
<td>AMH 3140</td>
<td>The Age of Jefferson (3) AS HTY</td>
<td></td>
<td>A study of the evolution of American society from the Age of Reconnaissance to 1750. Attention is given to the transformation from colonies to provinces with emphasis on ethnocultural conflict, religion, labor systems, and political culture.</td>
</tr>
<tr>
<td>AMH 3150</td>
<td>The Age of Jackson (3) AS HTY</td>
<td></td>
<td>Examines domestic developments, such as the consumer culture, protest movements, and abuses of political power.</td>
</tr>
<tr>
<td>AMH 3170</td>
<td>The Civil War and Reconstruction (3) AS HTY</td>
<td></td>
<td>An examination of political, social, and economic climate of the 1850's that led to the American Civil War. The course does focus upon the war itself in its military, diplomatic, and political consequences through the end of the Reconstruction (1877).</td>
</tr>
<tr>
<td>AMH 3160</td>
<td>The American Colonial History to 1750 (3) AS</td>
<td></td>
<td>A comprehensive study of American society and political culture from 1789-1828. Focuses on demographic trends, party systems, expansionism, Indian policy, labor, and ethno-cultural conflicts.</td>
</tr>
<tr>
<td>AMH 3180</td>
<td>The Age of Jackson (3) AS HTY</td>
<td></td>
<td>A study of America's role in the Cold War, in Vietnam, and in the post-Cold War era. Also examines domestic developments, such as the consumer culture, protest movements, and abuses of political power.</td>
</tr>
<tr>
<td>AMH 3190</td>
<td>The South since 1865 (3) AS HTY</td>
<td></td>
<td>A study of the composition and character of the &quot;American&quot; people with emphasis on the period from 1840s to the 1920s. Examines old world backgrounds of immigrants and their responses to the new world's social, economic and political conditions.</td>
</tr>
<tr>
<td>AMH 3201</td>
<td>The United States, 1877-1914 (3) AS HTY</td>
<td></td>
<td>A study of the South since the surrender at Appomattox. Topics covered include Reconstruction, the Populist revolt, race relations, demagoguery and disfranchisement, Southern women, and the Civil Rights Movement.</td>
</tr>
<tr>
<td>AMH 3210</td>
<td>American History I HP CAHU HHCP (3) AS HTY</td>
<td></td>
<td>A study of the United States between 1821 and the 1980s. Florida as an area of discovery, colonization, and imperial conflict; the emergence of Florida within the regional setting.</td>
</tr>
<tr>
<td>AMH 3220</td>
<td>American History II HP CAHU HHCP (3) AS HTY</td>
<td></td>
<td>An historical survey of Florida from the territorial period to the modern era. An examination of the social, political, and economic changes occurring in Florida between 1821 and the 1980s.</td>
</tr>
<tr>
<td>AMH 3230</td>
<td>Modern Florida (3) AS HTY</td>
<td></td>
<td>A study of American workers from the colonial period to the present. Examines the changing nature of work, its effects on workers (including minorities and women), and their responses as expressed in strikes, unions, and political action.</td>
</tr>
<tr>
<td>AMH 3240</td>
<td>U.S. Foreign Relations (3) AS HTY</td>
<td></td>
<td>U.S. relations with the world, 1776-present. Includes diplomatic, economic, cultural, and military relations. The course also examines immigration and other global influences on U.S. domestic history and analyzes changes in internationalist thought.</td>
</tr>
<tr>
<td>AMH 3250</td>
<td>Immigration History (3) AS HTY</td>
<td></td>
<td>A study of the composition and character of the &quot;American&quot; people with emphasis on the period from 1840s to the 1920s. Examines old world backgrounds of immigrants and their responses to the new world's social, economic and political conditions.</td>
</tr>
</tbody>
</table>
Course Descriptions

AMH 3545 War and American Empire (3) AS HTY
The U.S. evolved in 200 years from 13 colonies to the number one power in the world. To achieve this goal we utilized war to achieve empire. This course will examine the link between American War and empire from the Revolution through Viet Nam.

AMH 3561 American Women I (3) AS HTY
A study of women in the evolution of American society from European origins to 1877. Women's roles in the family, economy, politics, wars, and reform movements will be examined.

AMH 3562 American Women II (3) AS HTY
A study of women in the evolution of American society from 1877 to the present. Women's roles in the family, economy, politics, immigration, wars, religion and reform movements will be examined.

AMH 3571 African American History to 1865 HP CAHU HHCP (3) AS AFA
This course surveys the history of people of African-descent in the U.S. from the beginning of the Atlantic Slave Trade to 1865. Major topics include the rise & fall of slavery, ethnic & racial identities, resistance, gender, culture, and community.

AMH 3572 African American History since 1865 HP CAHU HHCP (3) AS AFA
This course explores the history of African Americans since 1865. Major topics include the struggle for equality, class and gender dimensions of the Black freedom struggle, and the varied approaches in the fight against oppression and inequality.

AMH 3630 American Environmental History (3) AS HTY
History of the American Environment and the ways in which different cultural groups have perceived, used, managed and conserved ii, from Colonial times to present.

AMH 4601 Early American History and Archaeology (3) AS HTY
This course is a five week long summer practicum in early American historical archaeology. The class brings together historical research, material culture studies, and historical archaeology methods within a professional historical archaeology setting.

AML 3031 American Literature From the Beginnings to 1860 (3) AS ENG
A study of representative works from the period of early settlement through American Romanticism, with emphasis on such writers as Cooper, Irving, Bryant, Hawthorne, Emerson, Melville, Thoreau, and Poe, among others.

AML 3032 American Literature From 1860 to 1912 (3) AS ENG
A study of representative works of selected American Realists and early Naturalists, among them Whitman, Dickinson, Twain, James, Howells, Crane, Dreiser, Wharton, Robinson, Dunbar, and Johnson.

AML 3041 American Literature, 1860 to Present (3) AP VVA
PR: ENC 1102, with a grade of C- or better. Examines texts from multiple genres, diverse writers, and key literary movements from 1860 to the present. It studies literary production, consumption, circulation, reception, and value. The course may be organized around one theme or multiple themes.

AML 3051 American Literature From 1912-1945 (3) AS ENG
A study of poetry, drama, and fiction by such writers as Pound, Stein, Fitzgerald, Hemingway, Faulkner, Porter, Toomer, Cummings, Williams, Anderson, Steinbeck, Wright, West, Stevens, Henry Miller, and others.

AML 3413 Historical Perspectives in Early American Literature HP (3) AS ENG
Examines American literature from the Colonial Period to the Civil War as a manifestation of geographical, political, social, and intellectual forces. Will not be counted toward the English major.

AML 3604 African American Literature 6A LW WRIN (3) AS ENG
A study of black American literature from the nineteenth century to the present, including the works of such writers as W.E.B. Dubois, Jean Toomer, Langston Hughes, Richard Wright, Ralph Ellison, LeRoi Jones, and Nikki Giovanni.

AML 3630 U.S. Latino/Latina Literature in English (3) AS ENG
PR: ENC 1101 and ENC 1102. This 3000-level literature course surveys American English literature by Latino/Latina writers (with Spanish American ancestry). Authors may include Piri Thomas, Sandra Cisneros, Esmeralda Santiago, Luis Valdés, Tomás Rivera, Oscar Hijuelos, etc.

AML 4111 Nineteenth-Century American Novel (3) AS ENG
A study of the American novel from its beginnings through 1900, including such novelists as Cooper, Hawthorne, Melville, James, Twain, Crane, and Dreiser, among others.

AML 4121 Twentieth-Century American Novel (3) AS ENG
A study of major trends and influences in American prose fiction from 1900 to the present, including works by such writers as Hemingway, London, Wharton, Fitzgerald, Faulkner, West, Mailer, Bellow, Ellison, Donleavy, Updike, Vonnegut, and others.

AML 4261 Literature of the South (3) AS ENG
A study of the major writers of the Southern Renaissance, including writers such as Faulkner, Wolfe, Caldwell, Hellman, McCullers, O'Connor, Warren, Styron, Tate, Davidson, and Dickey.

AML 4300 Selected American Authors (3) AS ENG
The study of two or three related major authors in American literature. The course may include such writers as Melville and Hawthorne, Hemingway and
Faulkner, James and Twain, Pound and Eliot, Stevens and Lowell, etc. Specific topics will vary. May be taken twice for credit with different topics.

AML 4624 Black Women Writers 6A LW (3) AS AFA
Black women writers focuses on the literature of women of Africa and the African Diaspora. It examines the social, historical, artistic, political, economic, and spiritual lives of Africana women in context of a global community.

AML 4931 American Literary Movements and Genres (3) AP VVA
PR: ENC 1102, with a grade of C- or better. Course repeatable for 6 hours max. Looks at a movement or genre in American literature (19th-century novel, Harlem Renaissance, Puritan sermons, etc). Building on skills from survey courses, class requires heavy but focused reading, familiarity with literary scholarship, and writing.

AML 4933 Studies in American Literature and Culture (3) AP VVA
PR: ENC 1102, with a grade of C- or better. Course repeatable for 6 hours max. This course examines a particular topic or theme, varying with individual selection, in the American literary tradition.

AML 5305 Studies in Individual American Authors (3) AM ENG
This course provides advanced study of two or three selected authors who are considered to have made major contributions to the development of American literature.

AMS 2030 Introduction to American Studies SS HP CAHU HHCP (3) AS HCS
An overview of American Studies, the interdisciplinary study of American culture. Analysis of the arts and literature, including music; social issues; popular culture; material culture; cultural diversity; and social change.

AMS 2201 Colonial American Culture HP (3) AS HCS
An examination of cultural patterns in America as they developed between 1600 and 1780 with an emphasis on the texture of everyday life.

AMS 2270 Twentieth-century American Culture HP CAHU HHCP (3) AS HCS
An examination of cultural patterns in America from 1900 to the present with emphasis on the texture of everyday life.

AMS 2363 Issues in American Civilization (1-4) AS HCS
An examination of selected topics such as natural environment and the quality of life, sports and American society, popular music, American communities, vigilante tradition, jazz music, role of the family, American success myth, youth in America. Topic varies.

AMS 3001 American Culture 1880-1915 6A HP (3) AS HCS
Integration of major aspects of American life between the 1880s and World War I.

AMS 3212 Nineteenth-century American Culture HP (3) AS HCS
An examination of cultural patterns in America from 1776 to 1900 with an emphasis on the texture of everyday life.

AMS 3230 America During the 1920s and 1930s 6A CAHU (3-4) AS HCS
Course provides an interdisciplinary examination of American culture during the turbulent interwar years, 1919 through 1941. Students will examine how the arts, advertising, fashion, and social behavior registered changing cultural values.

AMS 3260 American Culture, 1830-1860 6A HP (3) AS HCS
Examines the patterns of American culture in the years leading up to the Civil War. Topics include religion and social reform, race relations, and the impact of industrialization.

AMS 3302 Architecture and the American Environment (3) AS HCS
By means of slides, lectures and discussion, this course examines 350 years of American architectural history. Architectural styles, aesthetics and the relation between a building and its social environment are stressed.

AMS 3370 Southern Women: Myth and Reality 6A HP WRIN (3) AS HCS
This course will identify the myths surrounding Southern women, discern their sources and purposes, and contrast them with history.

AMS 3601 Material Culture and American Society SS HP (3) AS HCS
By means of slides, lectures and student projects, examines connections between artifacts and American cultural attitudes from 17th century to present. Topics include: architecture, furniture, gravestones, toys, and the material subcultures of women, African-Americans and communal societies.

AMS 3605 Working Class Culture in America CPST (3) AS HCS
An interdisciplinary examination of the cultural identity of American working class families from WWII to present.

AMS 3615 Film & American Society 6A WRIN (3) AS HCS
This course offers a broad introduction to American cinema history. Exploring the aesthetic and ideological consequences of a variety of genres and modes, it also asks how individual films engage historically specific socioeconomic and cultural context.

AMS 3700 Racism in American Society SS HP CASB (3) AS AFA
This course will help students understand the extent and causes of racism, anti-Semitism and prejudice in the U.S. They will learn how prejudice arises, the roots of racism, and its effects on society using lectures and videos.
AMS 3930 Selected Topics in American Studies (1-4) AS HCS
Offerings include Cultural Darwinism in America, America Through Foreign Eyes, and The Female Hero in American Culture.

AMS 4210 Regions of America HP (3) AS HCS
The pattern of American culture as revealed through an examination of selected writings and other pertinent materials dealing with selected American regions. Topic varies.

AMS 4305 Photography and American Society (3) AS HCS
A survey of photography as an art and a craft in America since the mid-nineteenth century. Attention devoted to technological innovations, leading personalities, major movements, and memorable icons. Open to majors and non-majors.

AMS 4804 Major Ideas in America MW CPST (3) AS HCS
Investigates the role of one or more influential ideas in American culture, for example: individualism, identity, community, dissent, reform, utopianism, democracy. Emphasizes the critical analysis of a variety of primary texts. Topic varies.

AMS 4910 Individual Research (1-4) AS HCS
The content of the course will be governed by student demand and instructor interest. Instructor approval required prior to registration.

AMS 4930 Selected Topics in American Studies (1-4) AS HCS
PR: Senior in American Studies or CI. Offerings include the social implications of American painting, Technology in Twentieth Century America, American Environmental Problems, Popular Culture in America, American Military Experience, and Labor in America.

AMS 4935 Senior Seminar in American Studies CPST (3) AS HCS
PR: HUM 3804, HUM 4331 and AMS 4936. The American Studies Senior Seminar focuses on the writing of a substantial research paper. Topic varies.

AMS 4936 American Studies Pro-Seminar (3) AS HCS
PR: HUM 3804. A course emphasizing the analysis of primary works in relation to cultural contexts, the integration of secondary sources, and the construction of a written argument. Topic varies.

AMS 4940 Internship in American Studies (1-2) AS HCS
A structured, out-of-class learning experience designed to provide first-hand, practical training in careers related to American Studies. Restricted to American Studies majors. Repeatable up to 4 credit hours.

ANG 5395 Visual Anthropology (3) AS ANT
PR: Graduate standing. This class will examine the major dimensions of visual anthropology with an emphasis on the visual means of presenting anthropology to the discipline and general public. The course will focus on visual documentation and study of visual images.

ANG 5486 Quantitative Methods in Anthropology (3) AS ANT
PR: Graduate Standing. This course is an introduction to quantitative methods for the anthropologist covering both classical statistical approaches and exploratory data analysis, using computers with statistical software.

ANG 5901 Directed Reading (1-4) AS ANT

ANG 5910 Individual Research (2-4) AS ANT
PR: DPR. Contract required prior to registration. S/U. Individual guidance in selected research project.

ANG 5937 Seminar In Anthropology (2-4) AS ANT
PR: Senior or GS. Topics to be chosen by students and instructor.

ANT 2000 Introduction to Anthropology SS AP CASB (3) AS ANT
The cross-cultural study of the human species in biological and social perspective. Surveys the four major branches of anthropology: physical anthropology, archaeology, linguistic anthropology, and cultural anthropology.

ANT 2410 Cultural Anthropology SS AP CAGC (3) AS ANT
Students are exposed to methods and concepts for cross cultural study of the world's peoples. Case studies demonstrate variations in human adaptation and encourage an understanding of and appreciation for diverse cultures and their values.

ANT 2464 Global Health from a Social Science Perspective (3) AS ANT
Using global health as a lens, this course will introduce students to critical interdisciplinary challenges that will shape the world in the future. It combines classroom and experiential learning while accessing the extraordinary resources of London.

ANT 2511 Biological Anthropology NS CANL (3) AS ANT
CR: ANT 2511L. This is an overview of biological anthropology. It covers areas such as evolutionary theory and genetics (critical thinking and scientific process), human variation (diversity), and epidemiology (environment). It also has a historical component.

ANT 2511L Biological Anthropology Laboratory (1) AS ANT
CR: ANT 2511 This is a lab companion to an overview of biological anthropology. The students will be doing laboratories which are relevant to the class topics covered in the lecture hall in ANT 2511.

ANT 3005 The Anthropological Perspective AP (3) AS ANT
For non-anthropology majors only. May not be counted for credit toward an anthropology major. Presents the basic concepts of anthropology as they are relevant to contemporary life. Aims at enabling the student to understand the anthropologist’s cross-cultural view of the human
species as adapting through biosocial means to life on this planet.

**ANT 3101 Archaeology SS CAGC HHCP (3) AS ANT**
PR: ANT 2000 recommended for Anthropology Majors/Minors. Focuses on critical thinking about the past, archaeological research. Methods, theory, web resources, and scientific analysis in the study of world prehistory, from human origins to modern times.

**ANT 3610 Anthropological Linguistics SS (3) AS ANT**
The comparative study of language in its cultural context, especially emphasizing the role of language in the cultural interpretation of physical and social reality.

**ANT 4012 Fantastic Archaeology MW (3) AS ANT**
PR: Junior standing or above. Mysteries including the Lost Continent of Atlantis, Ancient Astronauts, Piltdown Man, Psychic Archaeology, Noah’s Ark, and the Shroud of Turin will be examined, while emphasizing skills in critical thinking that have much wider practical applications.

**ANT 4014 Anthropology of American Culture (3) AS ANT**
PR: ANT 2410 This course examines American culture from an anthropological perspective. Various sources and methods will be used in formulating our portraits including readings, films, fieldwork, and personal experiences.

**ANT 4034 Theories of Culture (3) AS ANT**
The major concepts that form the anthropological view of humanity are viewed in historical perspective. Basic ideas of the western philosophical tradition are analyzed from the Greeks to the 19th century when they became incorporated into the new discipline of anthropology. 20th century anthropological developments on these themes are considered.

**ANT 4114 Seminar in Archaeological Method and Theory (3) AP ANT**
PR: [ANT 3101, UG C-] also majors only. Preliminary understanding of basic archaeological methods and theories; examines major theoretical paradigms; learn and practice different types of field methods and analyses of specific materials (i.e., ceramics, lithics, bone, etc.).

**ANT 4142 Old World Archaeology (3) AS ANT**
PR: ANT 3101 or DPR. The archaeology of Europe, Asia and Africa, from the earliest humans through the emergence of state-level societies in many parts of the Old World. The course will focus on comparative aspects of economic, social, political, and religious organization in the prehistoric Near East, Egypt, China, the Aegean, Europe and Africa.

**ANT 4143 European Archaeology (3) AS ANT**
PR: ANT 3101 or DPR. The archaeology of Europe, from the first Paleolithic inhabitants to the fall of Roman civilization. The course will focus on ancient material culture while emphasizing social and economic questions such as the emergence of modern humans, the adoption of agriculture, the development of complex societies, and the rise of civilization.

**ANT 4147 Environmental Archaeology (3) AS ANT**
PR: ANT 3101 or DPR. This course examines environmental constraints on ancient human societies, and how human activities have impacted the environment in the last several thousand years. Presentation of the methods used to reconstruct prehistoric environments will be followed by case studies from Florida, Central and South America, Easter Island, the Mediterranean and the Near East.

**ANT 4153 North American Archaeology (3) AS ANT**
PR: ANT 3101 or DPR. An examination of the evidence regarding the human settlement of North America from its beginnings through the development of aboriginal culture to the period of European conquest. Emphasis on the comparative study of material culture at selected sites from all time periods. No field work is involved.

**ANT 4158 Florida Archaeology (3) AS ANT**
PR: ANT 3101 or DPR. Culture history and culture process over 10,000 years from the time of the first people in Florida (Paleo-Indians) through the elaborate Weeden Island and Safety Harbor burial and temple mound cultures to the Spanish entrada and consequences of European conquest. Review of temporal and spatial relationships within the entire eastern U.S. and elsewhere. May be part of a summer (or other semester) field school, combined with Field Methods in Archaeology and Laboratory Methods in Archaeology.

**ANT 4163 Mesoamerican Archaeology (3) AS ANT**
PR: ANT 3101 or DPR. The chronological sequence from its beginnings through Protohistoric development is described and analyzed. Cultures such as the Maya, Aztec, Mixtec, Zapotec, Olmec, and Toltec are included, with emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

**ANT 4165 South American Archaeology (3) AS ANT**
PR: ANT 3101 or DPR. Describes and analyzes the sequence of cultural development in prehistoric South America. Cultures such as the Inca, Chavin, Mochica, Wari, Chimú are included. Emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

**ANT 4172 Historical Archaeology 6A MW (3) AS ANT**
PR: ANT 3101 or DPR. A survey and analysis of archaeology focused on the historic period. Laboratory research with data recovered from historic sites in addition to class work.

**ANT 4176 Archaeology of Africa (3) AP ANT**
Examine western myths of Africa as a Dark Continent of unsophisticated peoples; fossils revealing Africa as home of the first people; rock art/megaliths of earliest food producers; lives of the ancient pyramid builders; earliest Christian Kingdom.
### Course Descriptions

**ANT 4178 The History & Archaeology of the African Diaspora (3) AP ANT**
Rich contributions made by African peoples to life ways outside its borders; reviewing the history of the African Diaspora; identify the earliest migrations of the African peoples into Europe and Southwest Asia.

**ANT 4180 Laboratory Methods in Archaeology (2-4) AS ANT**
PR: ANT 3101 or DPR. Data and materials recovered from archaeological survey and excavation are processed in the laboratory; includes artifact cleaning, cataloguing, identification, and analysis; soil flotation; reconstruction and conservation of artifacts, mapmaking, etc. May be offered as part of a summer (or other semester) field session. May be combined with Florida Archaeology and Field Methods in Archaeology.

**ANT 4181 Museum Methods (3) AS ANT**
PR: ANT 3101 and DPR. Design, preparation and installation of exhibits in the Department of Anthropology Teaching Exhibit Gallery. Emphasis on theory, research, design, and construction. Discussion of museum-related issues such as administration and curation.

**ANT 4183C Archaeological Science (4) AS ANT**
PR: ANT 3101 or DPR. This course focuses on the application of scientific methods of analysis to archaeological materials including bone, stone, pottery, and metal. Methods include absolute dating, remote sensing, optical and SEM microscopy, elemental and isotope analysis. Laboratory sections provide hands-on experience with a variety of archaeological materials and analytical methods.

**ANT 4241 Anthropology of Religion 6A MW WRIN (3) AS ANT**
PR: ANT 2000, ANT 2410. The cross-cultural study of the social and cultural aspects of religion will be explored. Religious activities in traditional and modern societies will be discussed. Ritual behavior, religious practitioners, and symbols of belief will be considered.

**ANT 4285 Oral History (3) AS ANT**
PR: ANT 2410 or DPR. A survey of the history, methods, and current applications of oral history research, primarily in the anthropological study of culture, but with reference to allied disciplines. Students will become familiar with oral history through intensive analysis of selected case studies as well as guided field projects.

**ANT 4302 Gender in Cross-Cultural Perspective MW CPST HHCP (3) AS ANT**
PR: an anthropology or a women's studies class. Examines roles of women, men, other genders and social, economic, and political aspects of sex and gender, from a biocultural, 4-field anthropological perspective, emphasizing non-Western societies and cross-cultural comparison in past and present.

**ANT 4312 North American Indians (3) AS ANT**
PR: ANT 2410 or DPR. An examination of the evidence for the origin and antiquity of human beings in North America and of patterns of regional development until the period of contact with European colonists. Emphasis on varieties of ecological adaptation, social, political and religious systems, enculturation and worldview, folklore and visual art.

**ANT 4316 Ethnic Diversity in the United States (3) AS ANT**
PR: ANT 2410 or DPR. Special concerns include ethnic diversity in American society, historical and contemporary diversity in values, experiences, and lifestyles, and an examination of policies and problems affecting ethnic groups in the United States.

**ANT 4323 Mexico and Central America (3) AS ANT**
PR: ANT 2410 or DPR. Restricted to Anthropology majors, LACS certificate students, juniors and seniors only. Focuses on the history, contemporary values and interpersonal relationships, and patterns of rural and urban life in Mesoamerica. Guatemala and Mexico are emphasized.

**ANT 4340 The Caribbean 6A MW (3) AS ANT**
PR: ANT 2410 or DPR. Restricted to junior and senior CAS majors. Main themes include: the depopulation of the aboriginal population and the resettlement of the area via slavery, indenture, and migration; contemporary ethnic heterogeneity; economic problems of Third World microstates; development of a modern social and political consciousness. Religious diversity, music, the graphic arts, and the literature of the contemporary Caribbean will also be surveyed.

**ANT 4352 Peoples of Africa (3) AP ANT**
Dispels myths & stereotypes of Africa; focus on African geography, history, Western misperceptions of Africa, African worldviews, philosophy, literature, health issues, debt relief, refugees, & food acquisition, security.

**ANT 4390 Visual Anthropology (3) AS ANT**
PR: ANT 2410 and DPR. The use of photographic techniques for the cross-cultural recording and analysis of human activities. The study of ethnographic photography as both art and science, and the production of an anthropological study that expresses the goal of "visual literacy." Review and evaluation of the uses of visual techniques and the evidence they provide to the social scientist.

**ANT 4401 Exploring Cross-Cultural Diversity MW CPST (3) AS ANT**
This course will address a variety of challenging issues related to the general topic of cross-cultural diversity in contemporary American life.

**ANT 4403 Environmental Anthropology (3) AS ANT**
PR: ANT 2410 or DPR. Explores cultural, social, political, and economic dimensions of contemporary environmental problems. Emphasis placed on the links between local-level environmental degradation and broader regional and global forces.
ANT 4432 The Individual and Culture 6A MW (3) AS ANT
PR: ANT 2410 or DPR. The relationship between
the individual and society is studied cross-culturally.
Main themes include child-rearing practices,
psychosomatic illness and curing. Discussion of
theories and models of personality development
with special reference to their applicability to the
emerging field of cross-cultural mental health
planning.

ANT 4442 Urban Life and Culture (3) AS ANT
PR: ANT 2410 or DPR. The cross-cultural study of
urbanization, urbanism and human problems
associated with metropolitan environments.
Emphasis on the ethnography of city life and its
relationship to the practical applications of urban
research.

ANT 4462 Health, Illness, and Culture (3) AS ANT
PR: ANT 2410 or DPR. The study of health and
human behavior in cross-cultural perspective. Main
themes include: the impact of disease on the
development of human culture; comparative studies
of curing practices; medical systems in their
relationship to ideology. Emphasis on
understanding the role of medicine, and the
behavior of both practitioners and patients in
modern societies.

ANT 4467 Food, Health, and Culture (3) AP ANT
PR: ANT 2000/C- or ANT 2410/C- or ANT 2511/C-.
Basic human nutritional needs & their evolutionary
foundation; reconstruction of past diets; relationship
between food, health & medicine; food & disease;
food in religion; gender and food; food in cross-
cultural perspective; political economy of food.

ANT 4932 Honors Seminar (3) AS ANT
PR: Anthropology Major/Minor. This course is the
senior seminar in anthropology. The objectives are
to provide the honors student with an opportunity to
present, discuss and defend his/her own research
and to explore in-depth topics in several areas of
anthropology.

ANT 4935 Rethinking Anthropology 6A (3) AS ANT
PR: Anthropology Major/Minor. This course is
the senior seminar in anthropology. The objectives are

from the early primates through the ascent of Homo
sapiens sapiens, focusing on the human lineage.
Biosocial patterns and cultures of the past are also
covered.

ANT 4935 Rethinking Anthropology 6A (3) AS ANT
PR: ANT 3610 or DPR. Examines the relationships
between language and culture in cross-cultural
perspective. Explores the extent to which languages
shape the world views of their speakers. Emphasis
on the nature and degree of fit between linguistics
and other cultural systems of knowledge.

ANT 4701 Applied Anthropology (3) AS ANT
PR: ANT 2410 or DPR. A review of approaches
applying the anthropological perspective to
contemporary human problems. Particular
emphasis placed on public policy issues in United
States society. Discussion of the historical
development of applied anthropology, problems of
economic development of the Third World, and the
ethics of applied research and intervention.

ANT 4750 Language and Social Interaction 6A (3)
AS ANT
PR: ANT 3610 or DPR. Examines the role of
language and other modes of communication in the
social settings of speech communities. Student field
projects focus on the cross-cultural description and
analysis of patterns of communication in
ethnographic contexts.

ANT 4824 Archaeological Field Methods (4-12) AS
ANT
PR: ANT 3101 and DPR. Offered as all or part of a
summer (or other semester) field session. May or
may not be combined with Florida Archaeology and
Laboratory Methods in Archaeology. Students learn
appropriate methods of archaeological survey,
evacination, data and materials recovery, recording,
and processing.

ANT 4901 Directed Reading (1-4) AS ANT
PR: DPR. S/U only. Individual guidance in
concentrated reading on a selected topic in
anthropology. Contract required prior to registration.

ANT 4905 Individual Research (2-4) AS ANT
PR: DPR. S/U only. Individual guidance in a
selected research project. Contract required prior to
registration.

ANT 4930 Special Topics in Anthropology (2-4) AS
ANT
PR: Variable depending on topic or DPR. Topics to
be chosen by students and instructor permitting
newly developing subdisciplinary special interests
to be explored.

ANT 4932 Honors Seminar (3) AS ANT
PR: Admission to the honors program in
anthropology and DPR. Seminar designed to
provide the honors student with an opportunity to
present, discuss and defend his/her own research
and to explore in-depth topics in several areas of
anthropology.

ANT 4935 Rethinking Anthropology 6A (3) AS ANT
PR: Anthropology Major/Minor. This course is
the senior seminar in anthropology. The objectives are
to reflect upon and integrate major material covered in previous courses, to reflect upon the status on the discipline of anthropology, and to allow students to determine where they see themselves within the discipline. We will reflect upon the four fields of anthropology and ethics, as well as key issues such as evolution, race, and culture, and students are encouraged to integrate their knowledge from previous classes.

**ANT 4940 Directed Internship Including Practicum**
(2-4) AS ANT
PR: DPR. S/U only. Individual guidance in a selected internship. Contract required prior to registration. Majors and non-majors. May be repeated for credit; max 6 total hours.

**ANT 4970 Honors Thesis**
(3) AS ANT
PR: Admission to the honors program, completion of the honors seminar and DPR. S/U only. The student under the supervision of a faculty member will formalize, conduct, analyze, and report in writing a research project in anthropology.

**APK 3110 Exercise Physiology I**
(3) MD ATH
A study of the effects of physical activity on the body. Topics include acute and chronic adaptation of the cardiovascular, muscular, metabolic, hormonal, and energy systems to exercise. Open to non-majors.

**APK 3120 Exercise Physiology**
(3) ED EDP
PR: Admission to the Exercise Science Program or Permission of Instructor. This course is designed to explore physiological adjustments and adaptations that occur as the result of exercise. The main focus will be on exercise-induced changes in the metabolic, cardiovascular, respiratory, neuromuscular, and endocrine systems.

**ARA 1120 Modern Arabic I**
(4) AS WLE
CR: ARA 1120L. An intensive study of basic skills: pronunciation, listening comprehension, speaking and some composition.

**ARA 1120L Modern Arabic I Laboratory**
(1) AS WLE
CR: ARA 1120. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously.

**ARA 1121 Modern Arabic II**
(4) AS WLE
PR: ARA 1120 or its equivalent. CR: ARA 1120L. A continuation of ARA 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

**ARA 1121L Modern Arabic II Laboratory**
(1) AS WLE
CR: ARA 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

**ARA 2220 Modern Arabic III**
(4) AS WLE
PR: ARA 1121 or the equivalent. For language students who intend to attain basic proficiency.

**ARA 2221 Modern Arabic IV**
(4) AS WLE
PR: ARA2220 or the equivalent. Continuation of ARA2220. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

**ARA 4905 Directed Study**
(1-5) AS WLE
Departmental approval required. S/U only. Permits study options in Arabic not available in regularly scheduled curriculum at departmental discretion.

**ARA 4930 Selected Topics**
(1-5) AS WLE
Departmental approval required. Course permits classes in Arabic not available in the regularly scheduled curriculum at departmental discretion.

**ARC 2112L Architectural Freehand Drawing Methods**
(4) FA ARC
This course provides an introduction to basic freehand drawing with an emphasis on observational drawing, mapping, gesture, and drawing as a means of orientation. The student is introduced to a wide range of drawing methods, media and concepts.

**ARC 2131 Introduction to Architectural Design and Graphics**
(4) FA ARC
An introduction to fundamental “critical thinking” and graphic communication skills in architecture.

**ARC 2135 Introduction to Architectural Design & Graphics II**
(4) FA ARC
PR: ARC 2131. This course explores fundamental issues of space-making and perception of space, scale and habitation. In addition, this course builds on the skills and knowledge developed in the first introductory course through analysis and interpretation of specific works.

**ARC 2211 Introduction to Architecture**
HP FA CAHU, HHCP (3) FA ARC
An introduction to the analysis and interpretation of the architecture and urban design of various cultures.

**ARC 2701 Architectural History I**
HP FA (3) FA ARC
Overview of the built environment from prehistory through the Middle Ages. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context.

**ARC 2702 Architectural History II**
HP FA (3) FA ARC
Overview of the built environment from the Middle Ages to the present. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context.
ARC 2932 Selected Topics (1-4) FA ARC
Selected topics will include architectural diagramming, freehand drawing, model making, photography, and computer graphics. Courses are intended for non-majors and are repeatable.

ARC 4376 Architecture for Real Estate & Development (3) FA ARC
The course introduces the basic processes necessary for large scale projects and developments. Numerous professions are explained from varying points of view to allow participants to better understand how buildings get built and land developed.

ARC 4784 The City 6A MW (3) FA ARC
This course examines the history of the city, as both idea and reality, with a particular focus on Western cities, and the 20th century. The course is open to undergraduates and students in the Graduate Architecture Program.

ARC 4884 Sustainable Neighborhood Development (3) FA ARC
This course will focus on understanding and evaluating sustainable neighborhood development strategies, using multiple concepts, practices and approaches.

ARC 4931 Selected Topics in Architecture and Community Design (2-4) FA ARC
Variable topics will be offered for pre-professional studies for students in the Liberal Studies Major/ALA Degree Program and as electives for other undergraduates.

ARC 5175 Computer Technology (3) FA ARC
PR: CC. Introduction to the application of computer technology in current architectural practice. The exploration of available software, programs, and computer services for word processing, information handling, specification writing, feasibility analysis, cost estimating, economic performance and life cycle cost analysis, project management (network programming and analysis), computer graphics, computer aided design and drafting.

ARC 5216 The Building Arts (3) FA ARC
PR: CC. Introduction to the man-made environment. The study and profession of architecture. The various facets of the process of shaping the built environment as it manifests itself in the different roles and specialization of the experts involved the process, and in the various academic courses that prepare the architect for practice.

ARC 5256 Design Theory (3) FA ARC
PR: DPR. Survey of major schools of thought in design theory, methods of design and problem-solving, and design research. The nature of the design activity and its recurring difficulties. The nature and different types of problems. Traditional approaches to problem-solving and design in architecture; recent systematic as well as intuitive approaches to problem-solving based on developments in other fields. Scientific method; the systems approach and design.

ARC 5361 Core Design I (9) FA ARC
PR: CC. First of two semester Design Fundamentals/Design Graphics sequence focusing on design abstractions and analysis of the factors influencing conceptual design. Emphasis is placed on ordering principles, pattern recognition and utilization, and figure-ground relationships. Development of craftsmanship, drawing as a means to design, and perceptual acuity are stressed.

ARC 5362 Core Design II (9) FA ARC
PR: ARC 5361, CC. Second of two semester Design Fundamentals/Design Graphics sequence focusing on synthesis of design concepts and application of ordering principles in architectural design. Emphasis is placed on developing an understanding and awareness of architectural elements and compositions. Students examine the work of significant architects and use it as a basis for design exploration. Graphic documentation, diagramming, and model studies are stressed.

ARC 5363 Core Design III (6) FA ARC
PR: ARC 5362, ARC 5467, ARC 5587, ARC 5731. CO: ARC 5689. Study of the various phases of the building delivery and design process, and of different approaches to ordering that process in a systematic fashion. The student will use one such systematic approach in the investigation and development of design solutions for a project of moderate scale and complexity. Studies of built form ordering principles, mass/void relationships, scale and proportion, color, texture, contextual relationships, meaning/imagery, and building technology (awareness of structural organization, services networks, construction processes and materials). Aspects of human behavior as design determinants.

ARC 5364 Advanced Design A (6) FA ARC
PR: ARC 5363. CP: ARC 5588, ARC 5467. Application of orderly design processes to building projects of moderate complexity and scale. Continued investigation of the relationship between human behavior and the environment. Analysis and integration of site relationships into the development of design solutions. Legal aspects of zoning, building codes, and regulations regarding access for accessibility, fire escape, etc.

ARC 5365 Advanced Design B (6) FA ARC
PR: ARC 5363. CP: ARC 5588, ARC 5467. Investigation of the interaction between user requirements, environmental determinants, site and urban context conditions, technological factors, and design intentions in the development of design solutions for projects of medium scale and complexity. The analysis, design, and coordination of the various resulting systems, including structural, circulation, service networks, space zoning and use, environmental control systems at the interface between interior and exterior of a building. Representation of these relationships and systems in diagrams and models, and their manifestation in design and construction details.
ARC 5366 Advanced Design C (6) FA ARC
PR: ARC 5363, CP: ARC 5588, ARC 5467. Design of multi-purpose buildings of medium to large scale and complexity. Issues of community and neighborhood design as they relate to the design of buildings. Restoration and adaptive re-use of existing historic buildings. Focus on thinking through as well as documenting the complete building system and process.

ARC 5467 Materials and Methods of Construction (3) FA ARC
PR: ARC 5470, CC. Overview of properties of primary construction materials and systems that make up building structures and enclosures. Emphasis on elements and assemblies relative to various climates, technologies, costs, building codes, and craftsmanship.

ARC 5470 Introduction to Technology (3) FA ARC
Introduction to architectural technology, including structures, materials and methods of construction, and environmental controls. Overview of building systems and components and their integration into architectural design projects.

ARC 5587 Structures I (3) FA ARC
PR: Calculus, Physics, and ARC 5470, CC. Review of static and mechanical principles of materials. Analysis and evaluation for appropriate selection of structural systems and elements. Analysis and design of timber and steel structures, based on moment, shear, and deflection. Fundamentals of wind and seismic design as they apply to wood and steel construction. Truss analysis, beam and column behavior.

ARC 5588 Structures II (3) FA ARC

ARC 5689 Environmental Technology (3) FA ARC
PR: ARC 5467 and ARC 5470. Comprehensive overview of mechanical systems for buildings including: water and waste: fire protection and suppression; heating, cooling and controls; electric power distribution and illumination; communications; transportation systems, and acoustics.

ARC 5731 Architectural History I (3) FA ARC
Overview of the built environment from prehistory through the Middle Ages. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context. Varieties of methodological approaches to the analysis of historical architecture. The focus will be on the built environment of Europe and the Mediterranean basin.

ARC 5732 Architectural History II (3) FA ARC
Overview of the built environment from the Renaissance to the present. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context. Study of various methodological approaches to the analysis of historic architecture, and development of student's own approach. Emphasis will be on the built environment of Europe and America.

ARC 5789 Modern Architecture History (3) FA ARC
PR: CC. CI. Exploration of the philosophic, economic, aesthetic, social, historical and moral imperatives used by modern architects and historians in their attempt to design the appropriate physical environment for a new social order. The course will investigate the writings and works of the proponents of the modern style of architecture and study the "New Architecture" as defined by those who broke tradition and expressed the new era using modern construction materials and techniques.

ARC 5793 History Abroad (3) FA ARC
PR: CC. Summer study abroad. Location and description varies from year to year.

ARC 5794 Florida Architectural History (3) FA ARC
An examination of the environmental, sociological, technological, political, economic, cultural, and other factors that influenced the discovery, growth, and urbanization of Florida as manifested by its architecture.

ARC 5920 Architectural Design Studio Abroad (5) FA ARC
PR: CC. Summer study abroad. Location and description varies from year to year.

ARC 5931 Special Studies in Architecture (1-5) FA ARC
PR: CC. Variable titles offered on topics of special interest.

ARH 2050 History of Visual Arts I HP FA CAFA CAHU HHCP (3) FA ART
Survey of World Art to AD 1300. Introduction to problems of analyzing and interpreting the art of various cultures without making the Western perspective a privileged one.

ARH 2051 History of Visual Arts II HP FA CAFA CAHU HHCP (3) FA ART
Survey of World Art since 1300. Introduction to problems of analyzing and interpreting the art of various cultures without making the Western perspective a privileged one.

ARH 3001 Introduction To Art HP FA CAFA HHCP (3) FA ART
This online course investigates the histories of art, asking a range of questions about periods, cultures, styles of art making. We explore the experience of viewing art, inquiring into its many forms and definitions, historically and in the present.

ARH 4115 Ancient Egyptian and Near Eastern Art (3) FA ART
PR: ARH 2050 recommended but not required. A study of the art and cultures of ancient Egypt and the Near East, from the prehistoric period through
### COURSE DESCRIPTIONS

#### ARH 4130 Greek Art (3) FA ART
PR: ARH 2050 or EUH 2011 recommended but not required. A comprehensive study of ancient Greek sculpture, painting, architecture, and other artistic media from the Bronze Age through the Hellenistic period.

#### ARH 4151 Roman Art (3) FA ART
PR: ARH 2050 or EUH 2011 recommended but not required. A comprehensive study of ancient Roman sculpture, painting, architecture, and other artistic media from the founding of Rome through the reign of Constantine.

#### ARH 4170 Greek and Roman Art (3) FA ART
A comprehensive study of Aegean, Mycenaean, Etruscan, Greek and Roman painting, sculpture and architecture.

#### ARH 4200 Medieval Art (3) FA ART
PR: DPR. A comprehensive study of early Christian, Byzantine and Medieval painting, sculpture, architecture and manuscript illumination.

#### ARH 4301 Renaissance (3) FA ART
PR: DPR. A comprehensive study of Renaissance and Mannerist painting, sculpture and architecture in Italy and Northern Europe.

#### ARH 4318 Venetian Art (3) FA ART
PR: DPR. Major monuments of Venetian art are examined to elucidate the importance of Venice as the crossroads of cultural exchange between Islam, Byzantium, and the West, and the importance of Venetian art to the history of art and art criticism.

#### ARH 4350 Baroque and Rococo Art (3) FA ART
PR: DPR. A comprehensive study of the painting, sculpture and architecture in France, Italy, Spain and the Netherlands in the seventeenth and early eighteenth centuries.

#### ARH 4430 Nineteenth Century Art (3) FA ART
PR: ARH 2051. A comprehensive study of nineteenth century painting, sculpture and architecture in America and Europe. Gender/multicultural issues and methodologies in 19th century art are emphasized.

#### ARH 4450 Twentieth Century Art (3) FA ART
PR: ARH 2051. A comprehensive study of painting, sculpture and architecture from Cezanne to the present in Europe and the United States. Required of all art majors.

#### ARH 4455 Modern Political Iconography MW (3) FA ART
PR: DPR. The course explores art in which political themes are considered to be the source and determinant of aesthetic decisions. The dominant iconographic theme is the iconography of revolution, rebellion, and other forms of political struggle in 20th Century art and film.

#### ARH 4475C Contemporary Issues in Art HP FA MW (3) FA ART
PR: ARH 4450. A study of the principles and techniques of educational measurement as applied to the teaching of physical education; study of the functions and techniques of measurement in the evaluation of student progress toward the objectives of physical education.

#### ARH 4520 African Art (3) FA ART
PR: DPR. A combination of survey, comparative study and in-depth analysis of African sculpture, mainly from West and Central Africa. Emphasis on diversity of forms and contexts, functions, symbolism and meanings.

#### ARH 4530 Asian Art (3) FA ART
PR: Departmental Approval. An introduction to concepts of the arts of China, Japan and other Far Eastern countries.

#### ARH 4557 Chinese Art (3) FA ART
PR: DPR. Chinese Art proceeds chronologically, from the Neolithic era up to the contemporary art world. The course considers cultural, linguistic, technical, philosophic, political and religious influences on the art works produced by this ancient society.

#### ARH 4710 History of Photography 6A MW HHCP WRIN (3) FA ART
PR: ARH 2051. Comprehensive overview of the history of photography from its inception to the present day with an emphasis on the relationship of photography to the visual arts and popular culture.

#### ARH 4721C History of Printmaking 6A (3) FA ART
The history of Western printmaking from the Middle Ages to contemporary times, with an emphasis on artmaking technology and research, cultural perspectives and theoretical/critical analytical capabilities. The course is open to majors and non-majors. It is not repeatable for credit.

#### ARH 4724 History of Graphic Design 6A (3) AP VVA
This course surveys the design profession and the graphic design discipline. Students will explore graphic styles from the turn of the century to contemporary works, highlighting the innovations of influential designers throughout history.

#### ARH 4744 Selected Topics In The History of Film (3) FA ART
In-depth investigation of a selected period, development, or school in the history of film as art.

#### ARH 4800 Critical Studies In Art History 6A (3) FA ART
PR: Two advanced Art Histories. Specialized intensive studies in art history. Specific subject matter varies. To be announced at each course offering.

#### ARH 4890 Paris Art History (4) FA ART
PR: Minimum 8 hours of art history at the undergraduate level or equivalent. CI. This course will explore issues central to the history and criticism of art through the rich visual culture of Paris. Themes will include art and national identity, orientalism, the avant-garde and the role of the museum in the evolution of modern art.

#### ARH 4930 Art History: Selected Topics (2-4) FA ART
Lecture/discussion course designed to offer areas of expertise of visiting scholars or specific interests of resident faculty.
COURSE DESCRIPTIONS

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ARH 5451 Cultural and Intellectual History of Modern Art (4) FA ART
PR: CI. A course in which theories of modern artists and of critics and historians of Modernism are treated as a part of general cultural and intellectual history.

ARH 5813 Methods of Art History (4) FA ART
Must be taken during the student's first two semesters in the M.A. program. This course introduces students to various methods which art historians have used to analyze the form and content of individual works of art, and to various modes of historical explanation.

ARH 5836 Collection and Exhibition Management (3) FA ART
PR: Art Advisor's Approval. This class will introduce students to the basic principles of collections care and management and to the intellectual and practical tasks of preparing an exhibition. Sessions will include art handling, registration and condition reporting, preparing works of art for transit, environmental standards for collections storage and exhibition, and the professional responsibilities of the curator.

ART 2201C Concepts and Practices I FA CAFA (3) FA ART
Introduction to diverse art studio practices and concepts where topics include forms of communication, sourcing inspiration, and critical theory. Studio projects are augmented by lecture, discussion, reading, writing, and critical analysis.

ART 2203C Concepts and Practices II FA CAFA (3) FA ART
PR: ART 2201. Continuation of ART 2201 building on diverse art studio practice and concepts including crafting an artistic self, measuring success, and examining the artists role. Art projects are augmented by lecture, discussion, reading, writing, and critiques.

ART 2301C Beginning Drawing (3) FA ART
PR: Majors Only. Projects exploring the methods, media, and concepts of drawing.

ART 2400C Beginning Printmaking (3) FA ART
PR: Majors Only. This course is designed as an introduction to the medium of printmaking. It concentrates on the technical production of various print media including: intaglio, relief, monoprint and serigraphy (screen printing).

ART 2500C Beginning Painting (3) FA ART
PR: Majors Only. Projects in painting with emphasis on the exploration of methods and media and the development of individual concepts.

ART 2701C Beginning Sculpture (3) FA ART
PR: Majors Only. Projects in sculpture with emphasis on contemporary theory and issues, the development of individual concepts and the exploration of materials, tools, and processes.

ART 2750C Beginning Ceramics (3) FA ART
PR: Majors Only. An introduction to the use of ceramic materials as a means of self expression and critical exploration.

ART 2930 Selected Topics In Art (2-4) FA ART
PR: Majors Only. The content of this course will be determined by student demand and instructor interest. Open University offerings under this number may not be counted for degree credit for art majors.

ART 3310C Intermediate Drawing (3) FA ART
PR: ART 2301C. Permit required. Majors Only. An extension of the skills and concepts introduced in Beginning Drawing with an emphasis on individual experimentation and the development of advanced critical and technical skills in the discipline. Repeatable up to 15 hours.

ART 3380C Selected Topics in Drawing (3) FA ART
PR: ART 2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C. Majors Only. Selected Topics in Drawing is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

ART 3403C Intermediate Printmaking (3) FA ART
PR: ARH 2050, ARH 2051, ART 2301C, ART 2201C, ART 2203C, ART 3310C, ART 2400C. This course concentrates on developing intermediate skills in printmaking with particular emphasis on conceptual topics. The course is intended for majors. Repeatable up to 15 hours.

ART 3461C Selected Topics in Printmaking (3) FA ART
PR: ART 2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2400C, ART 3401C. Majors Only. Selected Topics in Printmaking is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

ART 3465 Digital Printmaking (3) FA ART
PR: ART 3612C or ART 2400C. Majors Only. An investigation of printmaking using the computer as a design interface between electronic and traditional printmaking processes. Repeatable up to 9 hours.

ART 3513C Selected Topics in Painting (3) FA ART
PR: ART 2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2400C, ART 3401C. Majors Only. Selected Topics in Painting is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

ART 3530C Intermediate Painting (3) FA ART
PR: ART 2201C, ART 2203C, ART 2301C, ART 2500C, ART 3310C, ARH 2050, ARH 2051. Majors only. An extension of the skills and concepts introduced in Beginning Painting with an emphasis on individual experimentation and the development of advanced critical and technical skills in the discipline. Repeatable up to 15 hours.

ART 3610C Digital Modeling (3) FA ART
PR: ART 3612C. Exploration of 3D digital modeling techniques for the creative arts. Provides study in
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Meeting</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>ART 3612C</td>
<td>Beginning Video, Animation and Digital Arts</td>
<td>(3)</td>
<td>FA</td>
<td>PR: Majors Only. An introductory exploration of the use of video, animation, and digital art as media for making contemporary art. Emphasis is on all levels of production, concept development, and the history and theory of media, moving image, sound, and animation.</td>
</tr>
<tr>
<td>ART 3616C</td>
<td>2D Animation</td>
<td>(3)</td>
<td>FA</td>
<td>PR: ART 3612C. Students develop a comprehensive understanding of Independent Cinema by producing short film projects. Topics include scriptwriting, professional production tools and practices, and exhibition. Non-repeatable. For majors and non-majors with prerequisite.</td>
</tr>
<tr>
<td>ART 3613C</td>
<td>Live Action Filmmaking</td>
<td>(3)</td>
<td>FA</td>
<td>PR: ART 3612C. Students develop a comprehensive understanding of Independent Cinema by producing short film projects. Topics include scriptwriting, professional production tools and practices, and exhibition. Non-repeatable. For majors and non-majors with prerequisite.</td>
</tr>
<tr>
<td>ART 3635</td>
<td>Selected Topics in Video, Animation &amp; Digital Arts</td>
<td>(3)</td>
<td>FA</td>
<td>PR: ART2201C, ART2203C, ART2301C, ART3310C, ART3612C, ART3613C, ARH 2050, ARH2051. Selected Topics in VADA is an intermediate course providing focused exploration on content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.</td>
</tr>
<tr>
<td>ART 3709C</td>
<td>Intermediate Sculpture</td>
<td>(3)</td>
<td>FA</td>
<td>PR: ART 2201C, ART 2203C, ART 2301C, ART 2701C, ART 3310C, ARH 2050, ARH 2051. This course expands upon the principles and processes introduced in Beginning Sculpture, developing a higher level of technical competence and critical sophistication. Repeatable up to 15 hours.</td>
</tr>
<tr>
<td>ART 3712C</td>
<td>Multiples, Molds, and Bronzecasting</td>
<td>(3)</td>
<td>FA</td>
<td>PR: ART 2701C and ART 3704C. Majors Only. Continued studies and projects in sculpture with an emphasis on the nature of multiples explored through advanced mold making and bronzecasting. This course may not be repeated for credit. The conceptual implications of the multiple will be taught through reading, lecture, discussion and demonstration.</td>
</tr>
<tr>
<td>ART 3735</td>
<td>Selected Topics in Sculpture</td>
<td>(3)</td>
<td>FA</td>
<td>PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2701C, ART 3704C. Majors Only. Selected Topics in Sculpture is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Repeatable up to 15 hours.</td>
</tr>
<tr>
<td>ART 3761C</td>
<td>Intermediate Ceramics</td>
<td>(3)</td>
<td>FA</td>
<td>PR: ART 2201C, ART 2203C, ART 2301C, ART 2750C, ART 3310C, ARH 2050, ARH 2051. Majors only. Intermediate problems in ceramics and emphasis on the exploration of methods and media and the development of individual concepts. Repeatable up to 15 hours.</td>
</tr>
<tr>
<td>ART 3781C</td>
<td>Selected Topics in Ceramics</td>
<td>(3)</td>
<td>FA</td>
<td>PR: ART2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2750C, ART 3761C. Majors only. Selected Topics in Ceramics is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.</td>
</tr>
<tr>
<td>ART 3843C</td>
<td>Site, Installation, and Performance</td>
<td>(3)</td>
<td>FA</td>
<td>PR: ART 2701C and ART 3704C. Majors Only. Continued studies and projects in sculpture with an emphasis on site-specific sculpture, installation and performance. A critical and cultural awareness of contemporary issues and media in sculpture will be developed through studio projects assigned readings, discussions, critiques and demonstrations. The course may not be repeated for credit.</td>
</tr>
<tr>
<td>ART 3939</td>
<td>The Real World</td>
<td>(3)</td>
<td>FA</td>
<td>PR: 12 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. Continued projects in drawing. Repeatable.</td>
</tr>
<tr>
<td>ART 4320C</td>
<td>Advanced Drawing</td>
<td>(3)</td>
<td>FA</td>
<td>PR: 15 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. Continued projects in drawing. Repeatable.</td>
</tr>
<tr>
<td>ART 4402C</td>
<td>Advanced Printmaking</td>
<td>(3)</td>
<td>FA</td>
<td>PR: 12 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. This course is designed as an advanced printmaking studio and emphasizes content and meaning in visual imagery. The student is encouraged to work in a specific printmaking medium (intaglio, relief, lithography or screen printing) and develop a cohesive series of images. Repeatable.</td>
</tr>
<tr>
<td>ART 4520C</td>
<td>Advanced Painting</td>
<td>(3)</td>
<td>FA</td>
<td>PR: 12 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. Continued projects in painting. Repeatable.</td>
</tr>
<tr>
<td>ART 4614C</td>
<td>Advanced Video, Animation and Digital Arts</td>
<td>(3)</td>
<td>FA</td>
<td>PR: 12 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. Advanced exploration of issues and practices in the creation of experimental computer art. Continues an interdisciplinary approach to video, animation, 3D modeling and electronic arts with a focus on individual and group projects. Repeatable.</td>
</tr>
<tr>
<td>ART 4634C</td>
<td>Visual Design for the Internet</td>
<td>(3)</td>
<td>FA</td>
<td>PR: 12 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. Continued projects in painting. Repeatable.</td>
</tr>
</tbody>
</table>
ART 4710C Advanced Sculpture (3) FA ART

ART 4782C Advanced Ceramics (3) FA ART
PR: 9 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. Continued problems in ceramics. Repeatable.

ART 4806 Theme Studio (3) FA ART
PR: Majors Only. All preparation courses plus course in Studio Workshop I.

ART 4814 Paris Art Studio (3) FA ART
PR: ART 2201C or equivalent. This course will explore contemporary and historic Paris as a subject and source for artmaking, drawing upon a range of concepts and strategies that emphasize imaginative encounters with its space, streets, museums, architecture and people.

ART 4900 Directed Reading (1-4) FA ART
PR: CI. Registration by contract only. A course of reading and study in an area of special concern governed by student demand, instructor interest and/or department requirements. Registration is by contract only. Repeatable.

ART 4905 Directed Study (1-4) FA ART
PR: CI, DPR. Registration by contract only. Independent studies in the various areas of Visual Arts. Course of study and credits must be assigned prior to registration. Repeatable.

ART 4925 Media Workshop: Design Production (3) FA ART
PR: Graphic design majors only. This upper level technology course will develop in-depth understanding of graphic software and print production techniques. Students will review software programs, file preparation requirements, and print production standards.

ART 4930 Selected Topics In Art (2-4) FA ART
PR: DPR. The content of this course will be determined by student demand and instructor interest. Open University offerings under this number may not be counted for degree credit for art majors. Repeatable.

ART 4940 Extended Studies (1-4) FA ART
Extended Studies requires students to engage in art-related activities that expand upon their traditional academic experience. It is by contract and may involve internship and/or foreign studies. The course is restricted to majors. Not repeatable.

ART 4970C Senior Thesis (4) FA ART
PR: DPR, CI. The creation of a coherent body of advanced level artwork that is supported by a written document describing processes working procedures, research, context and content of the artwork itself. The course is restricted to majors, and is required of all B.F.A. candidates.

ART 5390C Drawing (4) FA ART

ART 5448C Intaglio (4) FA ART
PR: CI. Registration by contract only. Investigations into more complex intaglio processes including photoengraving and color printing procedures. Emphasis on personal conceptual development in graphic media.

ART 5580C Painting (4) FA ART
PR: CI. Registration by contract only. Research in painting

ART 5740C Sculpture (4) FA ART

ART 5790C Ceramics (4) FA ART
PR: ART 2750C, DPR. Advanced problems in the various ceramic techniques, including throwing and glaze calculation. Repeatable.

ART 5910 Research (1-4) FA ART
PR: CI, DPR. Registration by contract only. Repeatable.

ASH 2270 Southeast Asian History HP AP CAHU HHCP (3) AS HTY
This course examines the origins and development of Southeast Asian history over the past two millennia. Southeast Asia is comprised of Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, Singapore, Brunei, Indonesia, the Philippines, and East Timor.

ASH 3404 Modern China SS HP AP SS HTY
Political, economic, and social history of China from the time of the first major Western contacts (17th-18th Centuries) through the consolidation of socialism in the late 1950's, and the Great Leap Forward.

ASL 2140C Basic American Sign Language (4) BC CSD
PR: DPR. Introduction to American Sign Language (ASL) as used in the deaf community. General discussion of ASL structure and introduction to various manual communication systems and philosophies. Emphasis on building a basic vocabulary. One hour of laboratory course work is included. Open to all majors.

ASL 2150C Intermediate American Sign Language (4) BC CSD
PR: ASL 2140C, DPR. A continuation of the basic course which expands the student's signing skills and introduces American Sign Language (ASL) idioms. Provides a greater opportunity for skill development in ASL structure and idiomatic usage. One hour of laboratory course work is included.

ASL 3324 Advanced ASL Discourse (3) BC CSD
PR: INT 3270. This course will focus solely on developing language skills within ASL, which are preliminary steps for interpretation, and will also address the development of student's ability to segment information and perform various cognitive
tasks intralingually.

ASL 3514 American Deaf Culture (3) BC CSD
PR: ASL 4161C. An overview to American Deaf Culture, including its norms, values and belief systems. This course will also provide insight to deaf history in North America, and the importance of ASL to the culturally Deaf community.

ASL 4161C Advanced American Sign Language (3) BC CSD
PR: ASL 2150C, DPR. A continuation of the study of American Sign Language (ASL) at the advanced skill level. Added emphasis on idioms, body language, and facial expression as an integral part of ASL. An hour of laboratory course work is included.

ASL 4201C American Sign Language 4 (3) BC CSD
PR: ASL 4161C. This course is a continuation of the study of American Sign Language (ASL) at the highly advanced level. It provides added emphasis on skill development of the language, including storytelling and poetry. One-hour laboratory course work is included.

ASL 4301C Structure of Sign Language (3) BC CSD
PR: ASL 4161C. This course is a basic introduction of semiotic and linguistic consideration of American Sign Language (ASL). It includes aspects of phonology, morphology, syntax, semantics, and discourse of ASL. A one-hour laboratory is incorporated into the coursework.

ASL 4405 Sign Language Codes (3) BC CSD
PR: CI. A review of the sign systems (SEE I, SEE II, LOVE, and Signed English) used to code messages through the use of sign. The student will have the opportunity to practice one of the sign systems.

ASL 4435 Fundamentals of Fingerspelling (2) BC CSD
PR: DPR. A concentrated study of technique in fingerspelling emphasizing clarity and rhythm in expression as well as receptive understanding.

ASL 4700 ASL Literature (3) BC CSD
This course will explore the role of ASL literature (such as visual-spatial stories, plays, poetry, etc.) used and created by culturally Deaf individuals so as to understand its purpose and importance within the Deaf community.

ASN 3012 Japan Today SS (3) AS GIA
Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.

ASN 3014 China Today AP (3) AS GIA
Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.

ASN 3030 The Middle East AP (3) AS GIA
Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.

AST 2003 Astronomy of the Solar System NS CANP (4) AS PHY
AST2003 is an introduction and overview of the astronomy of the solar system. It is designed to complement AST2004 to give a comprehensive overview of the science of astronomy.

AST 2004 Stellar Astronomy and Cosmology NS CANP (4) AS PHY
AST2004 is an introduction and overview of the Stellar astronomy and Cosmology. It is designed to complement AST2003 to give a comprehensive overview of the science of Astronomy.

AST 3033 Contemporary Thinking in Astronomy NS (3) AS PHY
PR: Junior or Senior Standing or CI. Seminar designed to assist the layman, with no scientific background, in comprehending contemporary developments in Astronomy. Necessary background material is provided by the instructor and a text. Topics covered in recent years include the space program, pulsars, x-ray astronomy, black holes, extra-terrestrial life, interacting galaxies, cosmology.

AST 3044 Archaeoastronomy (3) AS PHY
PR: Jr. or Sr. Standing or CI. Astronomical concepts and observational techniques used by prehistoric/ancient peoples for detecting change of seasons, constructing calendars, predicting eclipses, etc. Particular attention is given to Stonehenge, and to works of N.A. Indians, the Maya and Aztecs, and the Egyptians. Lec.-Lab.

AST 3526 Navigation (3) AS PHY
PR: Some knowledge of geometry, algebra, and trigonometry. Timekeeping, use of sextant, constellations, celestial navigation with minimum equipment, spherical astronomy.

AST 3930 Selected Topics in Astronomy (1-4) AS PHY
PR: CI. Course content will depend upon the interest of the faculty member and student demand.

ATR 1000 Introduction to Athletic Training (3) MD ATH
The purpose of this course is to familiarize students with the field of athletic training and the preparation necessary to become an athletic trainer.

ATR 2010C Care and Prevention of Physical Injuries (3) ED EDP
DPR. Principles and techniques of conditioning athletes for competition; prevention and care of injuries in physical education and athletic activities.

ATR 3102C Athletic Training Techniques (3) MD ATH
Athletic Training majors only. Overview course including basic components of the athletic training profession including the prevention, recognition and evaluation and immediate care of athletic injuries.
A1R 3123 Foundations of Athletic Training (3) MD
PR: ATR 3213C, ATR 3102C. Foundational topics in athletic training including anatomy review as it relates to diagnosis and treatment of athletic injuries. Other topic areas to include pharmacology, environmental issues and other current topics in athletic training. AT Majors only.

A1R 3132 Kinesiology and Pathomechanics (3) MD
A1TH
A study of the structure and function of the skeletal and muscular systems and of mechanical principles related to psycho-motor performance. Open to non-majors.

A1R 3202 Measurement and Evaluation in Athletic Training (3) MD
PR: ATR 3102C. Athletic Training majors only. Performances of basic athletic training skills. A weekly seminar is also required.

A1R 3212C Upper Extremity Assessment (3) MD
PR: ATR 3212C and ATR 3213C. Athletic Training majors only. The study and practice of techniques used when assessing injuries to the upper extremity, head and spine.

A1R 3213C Lower Extremity Assessment (3) MD
PR: ATR 3212C and ATR 3213C. Athletic Training majors only. The study and practice of techniques used when assessing injuries to the lower extremity, hip, pelvis, low back and gait.

A1R 3512 Athletic Training Administration and Policy (3) MD
PR: ATR 3212C, ATR 3213C. Foundational topics in Athletic Training including orthopedic assessment, casting and bracing and imaging techniques. Athletic Training majors only. Advanced techniques in athletic training including orthopedic assessment, casting and bracing and imaging techniques.

A1R 3513 Documentation in Athletic Training (1) MD
PR: ATR 3822L. Athletic Training majors only. Performance of basic athletic training skills under the supervision of a clinical instructor at various sites. Students develop competence in introductory and mid-level athletic training skills. Weekly seminar also required.

A1R 3822L Clinical Experience in Athletic Training II (3) MD
PR: ATR 3102C. Athletic Training majors only. Performance of basic athletic training skills under the supervision of a clinical instructor at various sites. Students develop competence in introductory athletic training skills. A weekly seminar is also required.

A1R 4223 Advanced Athletic Training (3) MD
PR: ATR 3212C and ATR 3213C. Athletic Training majors only. Advanced techniques in athletic training including orthopedic assessment, casting and bracing and imaging techniques.

A1R 4302C Therapeutic Modalities (3) MD
PR: ATR 3212C and ATR 3213C. Athletic Training majors only. The study and practice of techniques used when assessing athletic injuries to the upper extremity, head and spine. Issues related to psycho-motor performance. Open to non-majors.

A1R 4314C Therapeutic Rehabilitation (3) MD
PR: ATR 3212C and ATR 3213C. Athletic Training majors only. Advanced theory of pathology in injury, management of tissue and bone healing environments, disease, internal illness and injury and other general medical conditions. Issues related to radiology and pharmacology are also discussed.

A1R 4432 General Medical Conditions in the Athlete (3) MD
PR: ATR 3212C and ATR 3213C. Athletic Training majors only. Advanced theory of pathology in injury, management of tissue and bone healing environments, disease, internal illness and injury and other general medical conditions. Issues related to radiology and pharmacology are also discussed.

A1R 4504 Seminar in Sports Medicine 6A LW WRIN
PR: ATR 4432. The advanced study, writing, reflection and discussion of current athletic training issues. Emphasis is on professional preparation, scientific inquiry, credentialing, governance, employment practices, ethics, and scope of practice issues.

A1R 4832L Clinical Experience in Athletic Training III (3) MD
PR: ATR 3822L. Athletic Training majors only. Performance of mid-level athletic training skills under the supervision of a clinical instructor at various sites. Students develop competence in mid-level and advanced athletic training skills. Weekly seminar also required.

A1R 4842L Clinical Experience in Athletic Training IV (3) MD
PR: ATR 4832L. Athletic Training majors only. Continuation of clinical experience utilizing new skills under the direction of an NATABOC certified/state licensed athletic trainer accompanied by a one-hour seminar each week. This course provides students with the opportunity to develop...
COURSE DESCRIPTIONS

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competence in a variety of mid-level and advanced athletic training skills. Students may be assigned to a USF athletic team and/or one or more off-campus clinical affiliations. Students at this level will develop instruction skills by acting as peer-supervisors for level I, II and III students.

ATR 4902 Independent Study in Sports Medicine (1-3) MD ATH
S/U Only. Specialized independent study determined by the student's needs and interests. Repeatable 1 time.

ATR 5319 Rehabilitation Considerations for Children (3) MD ATH
Addresses the principles of rehabilitation for children. This course will entail advanced anatomical, physiological and psychological aspects of sports injury in the youth population.

ATR 5508 Contemporary Issues in Athletic Training (3) MD ATH
Takes a unique look at the current issues facing the profession of athletic training. Historical perspectives, current implications, and futuristic opportunities and threats are discussed.

ATR 5515 Administration of Injury Prevention Programs (3) MD ATH
Discusses the development and implementation of injury prevention programs for youth sports. Issues such as research, budgeting, marketing, and measuring effectiveness are identified.

ATR 5605 Youth Injury Epidemiology (3) MD ATH
Key issues in epidemiology, injury etiology, risk factors related to both internal and external variables, and the efficacy and effectiveness of preventive measures in regard to youth sport injury will be analyzed and discussed.

BCH 3023L Basic Biochemistry Laboratory (2) AS CHM
CR: BCH 3023. Practical work in determination and characterization of important biomolecules. Lec.-lab.

BCH 3053 Introductory Biochemistry (3) AS CHM
PR: BCH 2210 and BSC 2010. This course is a one-semester, introductory course in Biochemistry. This course is open to all majors and strongly recommended for Biomedical Science majors. This course is not repeatable for credit.

BCH 4033 Biochemistry I (3) AS CHM
PR: BCH 2211 and BSC 2010. Introduction to the chemistry and intermediary metabolism of biologically important substances.

BCH 4034 Advanced Biochemistry (3) AS CHM
PR: BCH 3023. An advanced undergraduate course emphasizing such topics as metabolic regulation, DNA and RNA structure and function, receptors, channels, antibodies, and contraction.

BCH 5045 Biochemistry Core Course (3) AS CHM
PR: Either BCH 2211, BCH 2211L, and BCH 3400 or BCH 4410 or graduate standing. A one-semester survey course in biochemistry for graduate students in chemistry, biology, and other appropriate fields and for particularly well-qualified undergraduates.

BCH 5105 Biochemistry Laboratory Rotations (1-3) AS CHM
A course in which first year graduate students rotate through selected professor's laboratories to learn techniques, become familiar with ongoing research in the Department and facilitate the selection of a mentor.

BME 4100 Biomedical Engineering (3) EN ECH
PR: Admission to any Engineering major or Science major. CR: Calculus 1. CoPR: Chemistry 1. An overview of biomedical engineering, including material and energy balances on human subjects, biomechanics, biomaterials, cellular and tissue engineering, biomedical imaging, neuroengineering, cardiovascular systems, engineering ethics and product dev.

BME 4332 Cell and Tissue Engineering (3) EN EGR
PR: EGN 3343 and EGN 3365 or EMA 4003. Engineering principles and molecular cell biology are applied to develop a fundamental understanding of property-function relationships in cells and tissues and exploit them in the rational design of tissue replacements.

BME 4406 Engineering of Biological Systems (3) EN ECH
PR: CHM 2210 (majors) or Consent of Instructor (non-majors). This course is designed to convey the basics of biological systems and the roles that engineers play in industrial biology to engineering students (primarily) and to students that are majoring in other sciences. Not repeatable for credit. For majors and non-majors.

BME 4440 Introduction to Bioastronautics (3) EN EGR
PR: EGN 3343. This course will discuss the space environment, impacts of microgravity on human physiology, countermeasures, human factors in spacesuit and spacecraft design, astronaut training, life support systems, mission planning, and private space flight.

BME 5040 Pharmaceutical Engineering (2) EN ECH
PR: Senior or graduate standing in engineering or CI. Introduction to pharmaceutical engineering, including dosage forms (tablets, capsules, powders, liquids, topical forms, and aerosols), excipients, regulatory issues, clinical studies, and good manufacturing practices.

BME 5320 Theory and Design of Bioprocesses (3) EN ECH
PR: Senior standing in engineering or CI. Open to majors and non-majors with CI. Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems.

BME 5748 Selected Topics in Biomedical Engineering (1-3) EN ECH
Selected topics in biomedical engineering, including biomedical engineering, biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems.
COURSE DESCRIPTIONS

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 5910</td>
<td>Directed Research in Bioengineering (1-3) EN ECH</td>
<td></td>
<td>Ci. Directed research in an area of biomedical engineering or engineering biotechnology.</td>
</tr>
<tr>
<td>BMS 5937</td>
<td>Selected Topics in Biomedical Engineering (1-3) EN ECH</td>
<td></td>
<td>Senior or GS standing in Engineering or Ci. Open to non-engineering students with Ci. Selected topics in biomedical engineering, including biomedical engineering, biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems. May be taken by non-engineering students with Ci. Repeatable as subjects vary.</td>
</tr>
<tr>
<td>BMS 4406</td>
<td>Principles of Human Pharmacology NS (3) MD MSG</td>
<td></td>
<td>Not available on S/U basis. Pharmacodynamics (effects), pharmacokinetics (absorption, distribution, metabolism, excretion) and side effects/toxicity of drugs. Designed to provide basic understanding of mechanism of drug action resulting from modifying biologic processes.</td>
</tr>
<tr>
<td>BMS 5005</td>
<td>Professions of Medicine: Foundations of Doctoring (1-19) MD MSG</td>
<td></td>
<td>This three-week course placed at the beginning of the medical school curriculum will introduce the students to principles that will be used through the entire medical school education and beyond. Basic scientists and clinicians present information in an integrated approach. Topical areas include: use of information resources (library/computer), the medical article, intro to evidence based medicine, effective study techniques, intro to the physical exam, cultural diversity, ethics and professionalism, and state of the art presentation. The course will use both large and small group learning techniques and students will demonstrate achievement of knowledge.</td>
</tr>
<tr>
<td>BMS 5015</td>
<td>Clinical Diagnosis and Reasoning (var.) MD MSG</td>
<td></td>
<td>This course aims to provide the student with the opportunity to &quot;think like a physician.&quot; It will provide the venue to integrate clin diagnosis/reasoning strategies with complementary aspects of clin problem solving/phys diagnosis/evidence based medicine.</td>
</tr>
<tr>
<td>BMS 5190</td>
<td>Anatomy by Diagnostic Testing (1-20) MD MSG</td>
<td></td>
<td>Describing normal human anatomy in three dimensions (frontal, coronal, and axial), using contrast medical and imaging modalities available for diagnostic radiologists. Course will be oriented to organ systems describing anatomy of the organ and its vasculature and topographic anatomy. It will include didactic lecture series and a standing display of images for self-studies. Plain radiographs, contrast studies of gastrointestinal and urinary tract, arteriograms, computed tomograms, magnetic resonance, and ultrasound scans of body organs will be displayed.</td>
</tr>
<tr>
<td>BOT 3015C</td>
<td>General Botany (4) AP BIO</td>
<td></td>
<td>Pr: BSC 2010 or BSC 2011, with a minimum grade of C- or better. A general survey of the plant kingdom. Introduction to plant anatomy, morphology, physiology, genetics, reproduction, classification, evolution and ecology. This course is a combined lecture and lab class. A lab fee will be assessed.</td>
</tr>
<tr>
<td>BOT 3152C</td>
<td>Field Botany (3) AS BIN</td>
<td></td>
<td>Pr: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L &amp; CHM 2045, CHM 2046 &amp; MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712. A field course emphasizing identification and classification of native and naturalized flowering plants of Florida including historical, climatic, and floristic aspects of plant communities. Fieldwork required. Lecture and Laboratory.</td>
</tr>
<tr>
<td>BOT 3373C</td>
<td>Vascular Plants: Form and Function (4) AS BIN</td>
<td></td>
<td>Pr: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L &amp; CHM 2045, CHM 2046 &amp; MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712. Introduction to morphology, physiology and evolution of vascular plants, integrating form and function to understand diversity. Lecture and Laboratory.</td>
</tr>
<tr>
<td>BOT 3850</td>
<td>Medical Botany (3) AS BCM</td>
<td></td>
<td>Pr: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2210, MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712. Study of agents that are produced by plants and that are toxic or psychoactive in human beings or are useful as remedies. Lecture only.</td>
</tr>
<tr>
<td>BOT 4184C</td>
<td>Biology of Coastal Plants (4) AS BIN</td>
<td></td>
<td>Pr: BOT 3373C, PCB 3043 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and Ci. CP: CHM 2211. A field course in coastal plants with emphasis on ecology and functional morphology. Fieldwork will stress the ecological aspects of plants in the coastal environment of Florida. Fieldwork required. Lecture and Lab.</td>
</tr>
<tr>
<td>BOT 4404C</td>
<td>Phycology (4) AP BIO</td>
<td></td>
<td>Pr: BSC 2010 or BSC 2011, BOT 3015C, with a minimum grade of C- or better. An introduction to freshwater and marine algae, their classification, distribution and ecology. Lecture and laboratory. This course is a combined lecture and lab class. A lab fee will be assessed.</td>
</tr>
<tr>
<td>BOT 4434C</td>
<td>Mycology (3) AS BCM</td>
<td></td>
<td>Pr: BOT 3373C or MCB 3020C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. A survey of the fungi with emphasis on their taxonomy, morphology, physiology and economic importance. Lec.-lab.</td>
</tr>
<tr>
<td>BOT 4601</td>
<td>Plant Ecology (3) AS BIN</td>
<td></td>
<td>Pr: PCB 3043, BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045 and CHM 2046. This course covers plant ecology on a number of different aspects of plants in the coastal environment of Florida. Fieldwork required. Lecture and Laboratory.</td>
</tr>
</tbody>
</table>
scales, from that of individuals and their physiology, to those of populations, communities, landscapes, and biomes. The course will emphasize critical thinking and writing skills.

**BOT 4810C Economic Botany (3) AS BIN**

PR: BOT 3373C. Study of the uses of plants by man for food, chemicals, fibers, and medicines.

**BSC 1005 Biological Principles for Non Majors NS CANL (3) AS BIN**

A comprehensive introduction to living systems, including the scientific basis of biology, cell structure and function, genetic mechanisms, human anatomy and physiology, and ecological and evolutionary processes.

**BSC 1020 The Biology of Humans NS CANL (3) AS BCM**

This non-science majors course deals with the principles and applications of human biology. Topics include: scientific literacy, cell structure and function, anatomy and physiology, genetics, infectious diseases, and biotechnology.

**BSC 2010L Cellular Processes Laboratory (1) AS BCM**

CR: BSC 2010L. Laboratory portion of Biology I Cellular Processes relating to cellular and subcellular structure and function. Mitosis, meiosis, and Mendelian genetics will be stressed.

**BSC 2010 Cellular Processes NS CANL (3) AS BCM**

CPR: BSC 2010L. This course deals with biological systems at the cellular and subcellular levels. Topics include an introduction to biochemistry, cell structure and function, enzymes, respiration, mitosis and meiosis, genetics and gene expression.

**BSC 2010L Cellular Processes Laboratory (1) AS BCM**

CR: BSC 2010. Laboratory portion of Biology I Cellular Processes relating to cellular and subcellular structure and function. Mitosis, meiosis, and Mendelian genetics will be stressed.

**BSC 2011 Biodiversity NS CANL (3) AS BIN**

PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L. Enrollment is limited to Department of Biology Honors Students. Course is designed to introduce Honors students to various approaches  (3) AS BIO

**BSC 2085L Anatomy and Physiology Lab I for Nursing and other Healthcare Professionals (1) NR NUR**

CR: BSC 2085. Laboratory exercises and virtual dissections linked to the basic content of Anatomy & Physiology I for Health Professionals.

**BSC 2086 Anatomy and Physiology II for Nursing and other Healthcare Professionals NS CANL (3) AS BIO**

PR: BSC 2085 and BSC 2085L. CR: BSC 2086L. Introduction of normal structure, function and selected pathological conditions for physiologic systems. Focus on understanding how the body functions in preparing for careers in nursing or health-related professions.

**BSC 2086L Anatomy and Physiology Lab II for Nursing and other Healthcare Professionals (1) NR NUR**

PR: BSC 2085 and BSC 2085L. CR: BSC 2086. Laboratory exercises and virtual dissections linked to the basic content of Anatomy & Physiology II for Health Professionals.

**BSC 2093C Human Anatomy and Physiology I (4) AS BIN**


**BSC 2094C Human Anatomy and Physiology II (4) AS BIN**


**BSC 2932 Selected Topics in Biology (1-4) AS BIN**

The course content will depend on student demand and instructor's interest.

**BSC 2934 Honors Seminar III: Scientific Approaches (3) AS BIO**

PR: BSC 2933, CI. Enrollment is limited to Department of Biology Honors Students. The course will begin to familiarize students with the process of conducting scientific research.

**BSC 2938 Honors Seminar I (1) AS BIO**

PR: BSC 2010, BSC 2010L & CHM 2045. CR: BSC 2011, BSC 2011L. Enrollment is limited to Department of Biology Honors students. Course is designed to introduce Honors students to various
<table>
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<tbody>
<tr>
<td>BSC 3022</td>
<td>Biology of Aging NS (3) AS BCM</td>
<td></td>
<td>This course will explore the cellular and molecular aspects of aging</td>
</tr>
<tr>
<td>BSC 3312</td>
<td>Marine Biology (3) AS BIN</td>
<td></td>
<td>Emphasis is placed on shallow water Florida environments.</td>
</tr>
<tr>
<td>BSC 3813</td>
<td>Life Science Fundamentals for Teachers (4) AS BIN</td>
<td></td>
<td>Focus on effective research based life sciences pedagogy.</td>
</tr>
<tr>
<td>BSC 4052</td>
<td>Conservation Biology (3) AS BIN</td>
<td></td>
<td>This course provides an extensive introduction to current models.</td>
</tr>
<tr>
<td>BSC 4057</td>
<td>Environmental Issues MW (3) AS BIN</td>
<td></td>
<td>Not for major's credit. Study of biological, economic, ethical, legal,</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>political and social issues relating to current environmental problems.</td>
</tr>
<tr>
<td>BSC 4313C</td>
<td>Advanced Marine Biology (4) AS BIN</td>
<td></td>
<td>Field and laboratory work will provide direct experience with the</td>
</tr>
<tr>
<td>BSC 4434</td>
<td>Bioinformatics (3) AS BCM</td>
<td></td>
<td>This lecture-based, nonrestrictive course covers basics of molecular</td>
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<td></td>
<td></td>
<td></td>
<td>bio-science data management/analysis. Focus is on general computational</td>
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<td>methods, their bio-basis, and how to evaluate analysis results.</td>
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<tr>
<td>BSC 4444</td>
<td>Genomics (4) AS BCM</td>
<td></td>
<td>We will be using genomic data available from multiple bioinformatics</td>
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<td></td>
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<td></td>
<td>databases to answer an open-ended question fundamental to organismal</td>
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<td></td>
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<td></td>
<td>evolution. The emphasis is to hone scientific inquiry skills in fledgling researchers.</td>
</tr>
<tr>
<td>BSC 4905</td>
<td>Independent Study (1-3) AS BIN</td>
<td></td>
<td>May be taken by majors for free elective credit.</td>
</tr>
<tr>
<td>BSC 4910</td>
<td>Undergraduate Research (1-4) AS BIN</td>
<td></td>
<td>It is taken in the semester prior to completion of a student's own</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>research project and the writing of the Biology Honors Thesis.</td>
</tr>
<tr>
<td>BSC 4932</td>
<td>Honors Seminar IV (1) AS BIO</td>
<td></td>
<td>The written contract required by the Department of Biology specifies</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>the regulations governing independent study.</td>
</tr>
<tr>
<td>BSC 4937</td>
<td>Seminar in Marine Biology (2) AS BIN</td>
<td></td>
<td>Only. Major's credit.</td>
</tr>
<tr>
<td>BSC 4970</td>
<td>Biology Honors Thesis (1-3) AS BIN</td>
<td></td>
<td>Enrollment is limited to Biology Department Honors students.</td>
</tr>
<tr>
<td>BSC 5425</td>
<td>Genetic Engineering and Recombinant DNA Technology (3) AS BCM</td>
<td></td>
<td>This lecture-based course will use a problem solving approach,</td>
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</table>

**UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG**

**COURSE DESCRIPTIONS**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Department(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 5931</td>
<td>Selected Topics in Biology (1-4) AS BIN</td>
<td></td>
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<tr>
<td>BUL 3320</td>
<td>Law And Business I (3) BA GBA</td>
<td></td>
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<tr>
<td>BUL 3321</td>
<td>Law And Business II (3) BA GBA</td>
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<tr>
<td>BUL 5332</td>
<td>Law and the Accountant (3) BA GBA</td>
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<tr>
<td>CAP 4034</td>
<td>Computer Animation Fundamentals (3) EN ESB</td>
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<tr>
<td>CAP 4063</td>
<td>Web Application Design (3) EN ESB</td>
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<tr>
<td>CAP 4401</td>
<td>Image Processing Fundamentals (3) EN ESB</td>
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<tr>
<td>CAP 4410</td>
<td>Computer Vision (3) EN ESB</td>
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<tr>
<td>CAP 4800</td>
<td>Systems Simulation (3) EN ESB</td>
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<tr>
<td>CAP 5400</td>
<td>Digital Image Processing (3) EN ESB</td>
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<tr>
<td>CAP 5625</td>
<td>Introduction to Artificial Intelligence (3) EN ESB</td>
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<tr>
<td>CAP 5771</td>
<td>Data Mining (3) EN ESB</td>
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<tr>
<td>CCJ 3014</td>
<td>Crime and Justice in America SS CASB (3) BC CJP</td>
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<tr>
<td>CCJ 3024</td>
<td>Survey of the Criminal Justice System SS (3) BC CJP</td>
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<tr>
<td>CCJ 3117</td>
<td>Theories of Criminal Behavior (3) BC CJP</td>
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<tr>
<td>CCJ 3621</td>
<td>Patterns of Criminal Behavior (3) BC CJP</td>
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</tr>
</tbody>
</table>

**BSC 5931 Selected Topics in Biology** (1-4) AS BIN

PR: Cl.

This course covers the nature of legal and societal institutions and environments, and major aspects of public, private, UCC and related business law.

**BUL 3320 Law And Business I** (3) BA GBA

This course covers the nature of legal and societal institutions and environments, and major aspects of public, private, UCC and related business law.

**BUL 3321 Law And Business II** (3) BA GBA

PR: BUL 3320. Legal problems in marketing of goods, nature of property, sales of personal property, securing of credit granted, nature and use of negotiable instruments.

**BUL 5332 Law and the Accountant** (3) BA GBA

PR: BUL 3320 or Cl. A comprehensive study of commercial law as it affects the practice of accounting.

**CAP 4034 Computer Animation Fundamentals** (3) EN ESB

PR: COP 4530. An introductory course to computer animation. Topics include storyboarding, camera control, hierarchical character modeling, inverse kinematics, keyframing, motion capture, dynamic simulation, and facial animation.

**CAP 4063 Web Application Design** (3) EN ESB

PR: COP 4530. Analysis, design, and development of software that operates on web servers and web browsers, supporting multiple concurrent users.

**CAP 4401 Image Processing Fundamentals** (3) EN ESB

PR: COP 4530. Practical introduction to a range of fundamental image processing algorithms. Extensive programming, with emphasis on image analysis and transformation techniques. Image transformation and manipulation.

**CAP 4410 Computer Vision** (3) EN ESB

PR: COP 4530. Introduction to topics such as image formation, segmentation, feature extraction, matching, shape recovery, texture analysis, object recognition, and dynamic scene analysis.

**CAP 4800 Systems Simulation** (3) EN ESB

PR: COP 4530. An introduction to discrete-event simulation for performance modeling of computer systems. Topics include performance metrics, random number generation, workload generation, queuing theory, simulation languages, model design, and output analysis.

**CAP 5400 Digital Image Processing** (3) EN ESB

PR: COP 4530 or GS. Image formation, sources of image degradation, image enhancement techniques, edge detection operators and threshold selection, low-level processing algorithms for vision, image data compression.

**CAP 5625 Introduction to Artificial Intelligence** (3) EN ESB

PR: COP 4530 or GS. Basic concepts, tools, and techniques used to produce and study intelligent behavior. Organizing knowledge, exploiting constraints, searching spaces, understanding natural languages, and problem solving strategies.

**CAP 5771 Data Mining** (3) EN ESB

PR: Undergraduate Statistics. An introductory course to mining information from data. Scalable supervised and unsupervised machine learning methods are discussed. Methods to visualize and extract heuristic rules from large databases with minimal supervision is discussed.

**CBH 4004 Comparative Psychology** (3) AS PSY

PR: PSY 3213 with a grade of C or better or Cl. The study of the evolution of behavior, similarities, and differences in capacities for environmental adjustment and for behavioral organization among important types of living beings.

**CCE 4031 Construction Management** (3) EN EGX

PR: EGN 3613C. Fundamentals of construction management. Topics include: general definitions, organizational roles, types of contracts, analysis of labor and equipment, cost estimating, contractor cash flow analysis, planning and scheduling, project control, construction administration, quality and safety management, and use of computer software in construction management.

**CCE 5035 Construction Management & Planning** (3) EN EGX

PR: EGN 3613C. Fundamentals of construction management. Topics include: general definitions, organizational roles, types of contracts, analysis of labor and equipment, cost estimating, contractor cash flow analysis, planning and scheduling, project control, construction administration, quality and safety management, and use of computer software in construction management.

**CCJ 3014 Crime and Justice in America** SS CASB (3) BC CJP

This course is a non-technical survey of the nature of crime in the United States and the ways in which our society seeks to deal with juvenile and adult offenders and victims of crime.

**CCJ 3024 Survey of the Criminal Justice System** SS (3) BC CJP

An introduction to the structure and operation of law enforcement, prosecution, the courts, and corrections. Also includes brief coverage of major reported crimes.

**CCJ 3117 Theories of Criminal Behavior** (3) BC CJP

PR: Junior standing, CCJ 3024 or Cl. Provides a basic understanding of the complex factors related to crime, with concentration on principal theoretical approaches to the explanation of crime.

**CCJ 3621 Patterns of Criminal Behavior** (3) BC CJP

PR: Junior standing. Reviews the nature and extent of the crime problem. The course will concentrate on major patterns of offender behavior including crimes against the person, property crimes, violent crimes, economic/white collar offenses, syndicated (organized) crimes, consensual crimes, female crime, political crime, and will examine criminal career data.
CCJ 3718 Applied Statistics in Crime (3) AP CJ P
This course is designed as a beginning undergraduate level statistics course for criminology majors. In addition to learning how and when to apply appropriate statistical tests, students will learn a number of basic statistical concepts. Majors Only.

CCJ 4224 Miscarriages of Justice (3) BC CJ P
To provide a critical examination of the current functioning of the American criminal justice system and to discuss how procedures used by police, prosecutors, defense attorneys, judges, and corrections agents potentially produce miscarriages of justice.

CCJ 4361 Death Penalty (3) BC CJ P
The primary purpose of this class is to provide a critical examination of capital punishment in the United States. It will also delve into the key dimensions of the death penalty debate and justifications for the death penalty and arguments for abolition.

CCJ 4450 Criminal Justice Administration (3) BC CJ P
PR: Junior standing, CJIE 4114 or CJT 4100 or CI. This course is designed to provide an in-depth examination of both the practical and theoretical aspects of the administration of criminal justice agencies. The major focus will be on law enforcement and correctional agencies.

CCJ 4604 Abnormal Behavior and Criminality (3) BC CJ P
PR: Junior standing, CCJ 3117 or CI. A systematic introduction to the relationship between mental illness and criminality, with focus on psychiatric labeling of deviant behavior and its implications for the handling of the criminal offender.

CCJ 4613 Forensic Psychology (3) BC CJ P
An upper-level course designed to provide students with an overview of the interdisciplinary field of psychology and law. The course explores how the disciplines of psychology and law can benefit from an exchange of ideas, and thus improve both fields.

CCJ 4651 Drugs and Crime (3) BC CJ P
The objective of this course is to provide the student a comprehensive understanding of the dynamics of drug use in American society.

CCJ 4662 Race and Crime (3) BC CJ P
The course focuses on race (racial bias, racial inferiority, cultural norms and adaptations) and social class (structural deficiencies, economic deprivation, economic exploitation, social capital) as they relate to one another, crime and life in general.

CCJ 4681 Domestic Violence (3) BC CJ P
This course is designed to examine the criminal justice system's response to domestic violence by focusing on the interactions between battered persons and the individual components of the criminal justice system.

CCJ 4690 Sex Offenders (3) BC CJ P
This course is designed to cultivate a psychological, criminological, and legal understanding of sex crimes and sex offenders. This course will provide an overview of current theoretical and clinical issues related to sexual offenders and sexual offenses.

CCJ 4700 Statistical Research Methods in Criminal Justice II (3) BC CJ P
PR: Junior standing, CCJ 3024 or CCJ 3117 or CI. Beginning with the scientific method, the tools commonly used to analyze criminal justice data will be emphasized. Recommended for students who intend to continue their education beyond the B.A. Required of students attending the MA program in CCJ at USF.

CCJ 4900 Directed Readings (1-3) BC CJ P
PR: Junior standing, CCJ 3024, CCJ 3117, CCJ 3621, CI. S/U only. (a) Students wishing to enroll must make arrangements with a faculty member during the semester prior to actually taking the course. (b) A minimum of four 4 CCJ courses must have been completed satisfactorily prior to enrollment. (c) First consideration will be given to Criminology majors. (d) Individual faculty members may add additional requirements at their discretion. No more than six hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours required for the major. This course is specifically designed to enable advanced students the opportunity to do in-depth independent work in the area of criminal justice. Each student will be under the close supervision of a faculty member of the program.

CCJ 4910 Directed Research (1-3) BC CJ P
PR: Junior standing, CCJ 3024, CCJ 3117, CCJ 3621, CI. S/U only. (a) Students wishing to enroll must make arrangements with a faculty member during the semester prior to actually taking the course. (b) A minimum of four 4 CCJ courses must have been completed satisfactorily prior to enrollment. (c) First consideration will be given to Criminology majors. (d) Individual faculty members may add additional requirements at their discretion. No more than six hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours required for the major. This course is designed to provide students with a research experience in which they will work closely with faculty on the development and implementation of research projects in the area of criminal justice.
CCJ 4930 Critical Issues in Policing (3) BC CJP  
PR: Junior standing, CCJ 3024 or CJE 4114 or CI.  
Focuses on some of the most critical issues in law enforcement today including: understanding and controlling police use of deadly force; police deviance; police prejudice and discrimination; violence-prone police officers; substance abuse by police officers; and administrative review of alleged police brutality.

CCJ 4933 Selected Topics in Criminology (3) BC CJP  
PR: Junior standing, CCJ 3024, CCJ 3621, CCJ 3117 or CI. Lecture course. Topic varies and is designed to address a wide variety of issues in criminology and criminal justice. Open to non-majors with CI.

CCJ 4934 Seminar in Criminology 6A MW CPST (3) BC CJP  
PR: Senior standing, a grade of C or better (a grade of C- is not acceptable) in CCJ 3701. These variable topic seminars are used for the in-depth study and discussion of the relationships among culture, gender, ethics, age, society, and criminal behavior. Such examinations may include the options the criminal justice does (or does not) have to deal with these interactions, and the ethics and efficacy of the system's response. Open to non-majors with CI.

CCJ 4939 Senior Capstone Seminar (3) AM CJP  
PR: CCJ 3024, CCJ 3117, CCJ 3701. This course is designed to provide students with the opportunity to demonstrate their understanding of the American criminal justice system and crime theories, and show competency in research methods, critical thinking, and scholarly writing.

CCJ 4940 Internship For Criminal Justice Majors (3) BC CJP  
PR: Senior standing, CCJ 3024, CCJ 3117, CCJ 3621. S/U only. No more than 9 hours of CCJ 4940 will be accepted toward the elective hours required for the major. The internship will consist of placement with one or more of the agencies comprising the criminal justice system. This course will enable the students to gain meaningful field experience related to their future careers. The three-hour block of credit will require a minimum of ten hours of work per week during a fall or spring term, fifteen hours per week in summer, within the host agencies in addition to any written work or reading assignments. See requirements for the B.A. degree in Criminology for the number of hours required.

CCJ 4970 Honors Thesis (3) BC CJP  
PR: CCJ 4934 (honors section), CCJ 4910 The student, under the direction of a faculty member, will formalize, conduct, analyze, and report in writing a research project in the Department of Criminology. The course is not repeatable. Majors only.

CDA 3101 Computer Organization (3) AS EIT  
PR: Any Physics course and CGS 3303, or CI. Elements of the computer are discussed in terms of the physical and conceptual design of memory, processors, busses and I/O elements. Organization of the system is cast in a meta-language that captures the logical and physical nature of the computer.

CDA 3103 Computer Organization (3) EN ESB  
PR: PHY 2049 or PHY 2054 and DPR. Introduction to computer hardware, logic elements and Boolean algebra, computer arithmetic, the central processing unit, assembly language programming, input/output, and memory.

CDA 3201 Computer Logic and Design (3) EN ESB  
PR: CDA 3103, COP 3514; CR: CDA 3201L and Degree Program Admission. CSE and EE majors. Others by special permission. Advanced coverage of Boolean Algebra; introduction to minimization of combinational logic circuits, analysis and synthesis of sequential circuits, testing of logic circuits and programmable logic devices.

CDA 3201L Computer Logic and Design Lab (1) EN ESB  
PR: CDA 3201. Laboratory component of the Computer Logic and Design class.

CDA 4203 Computer System Design (3) EN ESB  
PR: CDA 3201, CDA 3201L. Design Methods, Top-Down design, Building Blocks, Instruction and addressing models, minicomputer design, interfacing.

CDA 4203L Computer System Design Lab (1) EN ESB  
CR: CDA 4203. This lab introduces the student to the concept of system design. Several projects are given including building timing circuits, memory-based and communication circuits, and microcomputer-based designs.

CDA 4205 Computer Architecture (3) EN ESB  
PR: CDA 3201, CDA 3201L. Principles of the design of computer systems, processors, memories, and switches. Consideration of the register transfer representation of a computer, ALU's and their implementation, control units, memory and I/O, and the hardware support of operation systems.

CDA 4213 CMOS-VLSI Design (3) EN ESB  
PR: CDA 3201, CDA 3201L. Covers analysis and design of CMOS processing technology, CMOS logic and circuit design, layout timing and delay, and power and thermal issues. CMOS transistor theory, VLSI system design, case studies and rapid prototype chip design.

CDA 4213L CMOS-VLSI Design Lab (1) EN ESB  

CDA 4253 Field Programmable Gate Array System Design and Analysis (3) EN ESB  
PR: CDA 3201, CDA 3201L. Covers analysis and design of digital systems using VHDL simulation.
COURSE DESCRIPTIONS

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CDA 4621 Control of Mobile Robots (3) EN ESB
PR: CDA 3201. Mobile Robotic Control Systems design and implementation. Includes microcontroller, sensor, and actuator control processes for localization and navigation. Team project development of software interface for robot control.

CDA 5416 Introduction to Computer-Aided Verification (3) EN ESB
PR: CDA 3201, COT 3100, COT 4400, COP 4530. This course introduces basic concepts of formal verification. Topics include formal specification, algorithms, and methodologies for scalable verification. It is only for CSE majors or non-majors with permission from the instructor, not repeatable.

CEG 4011 Geotechnical Engineering I (3) EN EGX
PR: EGN 3353, EGN 3331. Fundamental and experimental concepts in soil mechanics with emphasis on soil properties, soil moisture, soil structure, and shearing strength.

CEG 4011L Geotechnical/Transportation Laboratory (1) EN EGX
CR: CEG 4011. Demonstrates and experiments verifying theoretical bases of Geotechnical and Transportation Engineering. One hour lecture and two laboratory hours per week.

CEG 4012 Geotechnical Engineering II (3) EN EGX
PR: CEG 4011. Design of retaining walls, earth slopes, foundations to control settlement, soil stabilization and foundations subjected to dynamic loads. Computer applications to soil mechanics will be covered.

CEG 4850 Capstone Geotechnical/Transportation Design MW CPST (3) EN EGX

CEG 5115 Foundation Engineering (3) EN EGX
PR: CEG 4011 or CI. Design of shallow foundations, cantilevered and anchored retaining walls, piling, drilled piers and special foundations. Computer applications to geotechnical engineering are covered.

CEG 5205 Laboratory Testing for Geotechnical Engineers (3) EN EGX
PR: CEG 4011 or CI. Both routine and advanced forms of soil testing are covered. Emphasis is placed on procedures and application of results to design.

CEN 3040 Integrated Development Environments (Eclipse) (3) HM EIT
PR: COP 2250. This course focuses on the use of the Eclipse IDE for developing Java applications.

Students will also learn how to take advantage of the plug-in architecture of Eclipse.

CEN 3722 Human Computer Interfaces for Information Technology (3) AS EIT
Human-Computer Interface is the study of people, computer technology and the ways these influence each other. The basic foundations of HCI in terms of psychology, computer systems and their integration into design practice are discussed in the course.

CEN 4020 Software Engineering (3) EN ESB
PR: COP 4530. An overview of software engineering techniques for producing high quality software. Student will participate in a software development team.

CEN 4031 Software Engineering Concepts for Information Technology (3) AS EIT
PR: EEL 4854 or CI. Concepts associated with production of high quality software through the use of software engineering concepts and practices are covered. In addition to conceptual presentations, students are required to participate in software development team projects.

CEN 4072 Software Testing (3) EN ESB
PR: COP 2510, COP 4530. The course provides the fundamental principles and tools for testing and validating large-scale software systems. The course is open to majors as well as non-majors.

CEN 4721 User Interface Design (3) EN ESB
PR: COP 4530. An examination of factors influencing the usability of a computer system. Topics include input and output devices, graphic and multi-media interfaces, formats for interaction/communication between computer and user, and the evaluation of usability.

CES 3102 Structures I (3) EN EGX
PR: EGN 3331. Analysis of simple structural systems, both determinate and indeterminate. Moment area theorems; influence lines; introduction to steel design.

CES 4141 Finite Element Analysis I (3) EN EGX

CES 4561 Computer Aided Structural Design (3) EN EGX
PR: CES 4141. Computer aided structural analysis and design using existing finite element program, static dynamic loading.

CES 4605 Concepts of Steel Design (3) EN EGX
PR: CES 3102. Introduction to steel design and AISC Manual of Steel Construction: Design of tension members; compression members; beams; beam columns; and bolted, welded, and riveted connections.
| Course Code   | Course Title                                           | Credits | College |  | Department     |  |  |
|--------------|--------------------------------------------------------|---------|---------|  |                |  |  |
| CES 4702     | Concepts of Concrete Design (3) EN EGX                |         |         |  |                |  |  |
| PR:          | CES 3102. Introduction to concrete design and the ACI  |         |         |  |                |  |  |
|              | Building Code Requirements for reinforced concrete:   |         |         |  |                |  |  |
|              | Design of flexural reinforcement in beams and slabs,  |         |         |  |                |  |  |
|              | design of shear reinforcement, design of concrete     |         |         |  |                |  |  |
|              | columns.                                              |         |         |  |                |  |  |
| CES 4704     | Capstone Structural/Materials Design (3) EN EGX       |         |         |  |                |  |  |
| PR:          | EGN 3365, CES 4605, CES 4702. A Capstone Materials    |         |         |  |                |  |  |
|              | design experience for seniors in Civil and Environmental Engineering. This course will provide students with a focused design experience aimed to design for durability and reliability. |         |         |  |                |  |  |
| CES 4750     | Capstone Structural/Geotechnical/                      |         |         |  |                |  |  |
|              | Material Design MW CPST (3) EN EGX                    |         |         |  |                |  |  |
| PR:          | EGN 3365, CES 4605, CES 4702, CEG 4011. A capstone    |         |         |  |                |  |  |
|              | structural/ geotechnical/ materials design experience |         |         |  |                |  |  |
|              | for seniors in Civil and Environmental Engineering.   |         |         |  |                |  |  |
|              | Design of structures and foundations made of steel and |         |         |  |                |  |  |
|              | reinforced concrete.                                   |         |         |  |                |  |  |
| CES 4820C    | Timber and Masonry Design (3) EN EGX                  |         |         |  |                |  |  |
| PR:          | CES 3102, CES 4702. Fundamentals of timber design     |         |         |  |                |  |  |
|              | including beams, columns, connections and formwork.   |         |         |  |                |  |  |
|              | Introduction to masonry design including design of    |         |         |  |                |  |  |
|              | design of beams, walls, columns, and pilasters.      |         |         |  |                |  |  |
| CES 5105C    | Advanced Mechanics of Materials I (3) EN EGX          |         |         |  |                |  |  |
| PR:          | EGN 3331, MAP 2302 Analytical study of the mechanical |         |         |  |                |  |  |
|              | behavior of deformable solids. Basic concepts, stress |         |         |  |                |  |  |
|              | and strain transformations, special topics in beams,   |         |         |  |                |  |  |
|              | theory of elasticity, criteria of failure, beams on   |         |         |  |                |  |  |
|              | elastic foundation.                                    |         |         |  |                |  |  |
| CES 5209     | Structural Dynamics (3) EN EGX                        |         |         |  |                |  |  |
| PR:          | CES 3102, EGN 3321. Behavior of structural components |         |         |  |                |  |  |
|              | and systems when subjected to periodic dynamic loads. |         |         |  |                |  |  |
| CES 5715C    | Prestressed Concrete (3) EN EGX                       |         |         |  |                |  |  |
| PR:          | CI, majors only. Fundamental principles of prestressing |         |         |  |                |  |  |
|              | calculation of losses; stress analysis and design of   |         |         |  |                |  |  |
|              | simple beams for flexure and shear. Examples of       |         |         |  |                |  |  |
|              | pressures applications.                                |         |         |  |                |  |  |
| CGN 3021L    | Civil Engineering Laboratory (2) EN EGX               |         |         |  |                |  |  |
| PR:          | CES 3102, EGN 3353, EGN 3365. A laboratory experience  |         |         |  |                |  |  |
|              | in departmental facilities including the subject areas |         |         |  |                |  |  |
|              | of materials, fluids, environmental engineering, and   |         |         |  |                |  |  |
|              | computer assisted data acquisition.                    |         |         |  |                |  |  |
| CGN 4122     | Professional and Ethical Issues in Engineering MW (1)  |         |         |  |                |  |  |
|              | EN EGX                                                 |         |         |  |                |  |  |
| PR:          | Any PHY course. A lecture and problem solving course   |         |         |  |                |  |  |
|              | which deals with subjects related to computers and     |         |         |  |                |  |  |
|              | information technology. A broad range of conceptual    |         |         |  |                |  |  |
|              | and practical topics in IT are covered.               |         |         |  |                |  |  |

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**COURSE DESCRIPTIONS**

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<table>
<thead>
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<th>Course Code</th>
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<th>Required Prerequisites</th>
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<tbody>
<tr>
<td>CGS 3373</td>
<td>IT Concepts &amp; Data Networking</td>
<td>4</td>
<td>Admission to the IT Program</td>
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<tr>
<td>CGS 3374</td>
<td>Computer Architecture &amp; Operating Systems</td>
<td>4</td>
<td>CGS 3373</td>
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<tr>
<td>CGS 3845</td>
<td>Electronic Commerce</td>
<td>3</td>
<td>COP 2510 or equivalent</td>
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<tr>
<td>CGS 3847</td>
<td>Advanced e-Commerce</td>
<td>3</td>
<td>COP 4834</td>
</tr>
<tr>
<td>CGS 3850</td>
<td>Web Development: JavaScript &amp; jQuery</td>
<td>3</td>
<td>CGS 3853, Javascript is used to develop interactive Web</td>
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<td>pages/sites. OO language, with its dynamic functionality,</td>
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<td>is quickly inserted into a Web page. Used on WWW it is</td>
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<td>the most popular programming language worldwide</td>
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<tr>
<td>CGS 3853</td>
<td>IT Web Design</td>
<td>3</td>
<td>COP 2510 or equivalent</td>
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<tr>
<td>CGS 4855</td>
<td>Intermediate Web Development (jQuery)</td>
<td>3</td>
<td>CGS 3850. This course provides more practical and</td>
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<td>professional tools for working with Cascading Style</td>
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<td>Sheets (CSS) and JavaScript using the jQuery and the</td>
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<td>jQuery UI (User Interface) libraries.</td>
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<tr>
<td>CGS 4856</td>
<td>Intermediate Web Design (HTML5)</td>
<td>3</td>
<td>CGS 3853, CGS 3850, CGS 4855. This course continues from</td>
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<td>the first courses in Web Design and Web Development to</td>
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<td>add the new concepts and capabilities of HTML5.</td>
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<tr>
<td>CGS 4857</td>
<td>Android Web Applications (w/HTML5, CSS3, jQuery)</td>
<td>3</td>
<td>CGS 3853, CGS 3850, CGS 4856. A mobile web application</td>
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<td>is one built with core client web technologies. Students</td>
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<td>will learn to develop designs for mobile devices; these</td>
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<td>will also work as desktop web apps if the browser uses</td>
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<td>the same versions of technologies (HTML5, CSS3, JavaScript).</td>
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<tr>
<td>CHI 1120</td>
<td>Modern Chinese I</td>
<td>4</td>
<td>CHI 1120L. Mandarin. An intensive study of basic skills:</td>
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<td>pronunciation, listening, comprehension, speaking, and</td>
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<td>some composition.</td>
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<td>CHI 1120L</td>
<td>Modern Chinese I Laboratory</td>
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<td>CHI 1120. S/U only. Concurrent enrollment with a lecture</td>
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<td>session is required, and, if dropped, then dropped</td>
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<td>simultaneously. A laboratory designed to offer additional</td>
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<td>practice using various instructional technologies and</td>
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<tr>
<td>CHI 1121</td>
<td>Modern Chinese II</td>
<td>4</td>
<td>CHI 1121L. Mandarin. PR: CHI 1120 or equivalent. A</td>
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<td></td>
<td>continuation of CHI 1120. More sophisticated oral/aural</td>
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<td>skills are attained. Basic reading skills are acquired.</td>
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<tr>
<td>CHI 1121L</td>
<td>Modern Chinese II Laboratory</td>
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<td>CHI 1121. S/U only. Concurrent enrollment with a lecture</td>
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<td>session is required, and, if dropped, then dropped</td>
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<td>simultaneously. A laboratory designed to offer additional</td>
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<td>practice using various instructional technologies and</td>
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<td>CHI 1955</td>
<td>Overseas Study in China</td>
<td>1-6</td>
<td>Special permission. Intensive study of Chinese language</td>
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<td></td>
<td></td>
<td>in China involving classroom instruction and cultural</td>
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<td>excursions conducted in Chinese. Must be enrolled in Tier</td>
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<td>I of the USF Chinese Learning in the Culture program in</td>
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<td>Qingdao. Students from other institutions eligible.</td>
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<tr>
<td>CHI 2220</td>
<td>Modern Chinese III</td>
<td>4</td>
<td>CHI 1121 or the equivalent. For language students who</td>
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<td>intend to attain basic proficiency.</td>
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<tr>
<td>CHI 2221</td>
<td>Modern Chinese IV</td>
<td>4</td>
<td>CHI 2220 or the equivalent. Continuation of CHI 2220.</td>
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<td>Practice of writing, speaking and listening skills for</td>
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<td>language students who intend to attain basic proficiency.</td>
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<tr>
<td>CHI 3241</td>
<td>Advanced Chinese Conversation I</td>
<td>4</td>
<td>Successful completion of CHI 2221 or permission of</td>
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<td>instructor. This is the first of a two-course sequence in</td>
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<td>advanced spoken Mandarin Chinese at the third-year level.</td>
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<td>Particular emphasis is placed on student performance in</td>
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<td>commonly encountered contexts in Chinese culture, both</td>
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<td>formal and informal.</td>
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<td>CHI 3242</td>
<td>Advanced Chinese Conversation II</td>
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<td>CHI 3241. This is the second of a two-course sequence in</td>
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<td>advanced spoken Mandarin Chinese at the third-year level.</td>
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<td>Particular emphasis is placed on student performance in</td>
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<td>commonly encountered contexts in Chinese culture, both</td>
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<td>formal and informal.</td>
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<tr>
<td>CHI 4443</td>
<td>Networking in China and America</td>
<td>4</td>
<td>CHI 2221 and permission of instructor. Intensive study of</td>
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<td>Chinese language and culture at the upper division. Focus</td>
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<td>on interaction skills.</td>
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necessary to interact in business and professional settings.

CHI 4905 Directed Study (1-5) AS WLE
Departmental approval required. S/U only. Permits study options in Modern Chinese not available in the regularly scheduled curriculum at departmental discretion.

CHM 2023 Chemistry for Today NS (4) AS CHM
PR: High school chemistry and mathematics including algebra are recommended. No credit for science majors. An introduction to the principles and applications of modern chemistry including the properties of matter, structural view of matter and reactions, quantitative relations in chemical reactions, technological aspects and societal impact.

CHM 2032 Introduction to General, Organic, and Biochemistry I CANP (4) AS CHM
No credit for science majors. Fundamental concepts of general, organic, and biological chemistry.

CHM 2045 General Chemistry I NS CANP (3) AS CHM
PR: 550 SAT Quantitative score or completion of MAC 1105 College Algebra with a C or better AND one year of high school chemistry or completion of CHM 2023 with a grade of C or better. Principles and applications of chemistry including properties of substances and reactions, thermodynamics, atomic-molecular structure and bonding, periodic properties of elements and compounds.

CHM 2045L General Chemistry I Laboratory (1) AS CHM
CP: CHM 2045. Laboratory portion of General Chemistry I. Introduction to laboratory techniques; study of properties of elements and compounds; synthesis and analysis of natural and commercial materials.

CHM 2046 General Chemistry II NS CANP (3) AS CHM
PR: CHM 2045 and CHM 2045L with a C or better or equivalent. Principles and applications of chemistry including solutions, chemical thermodynamics, kinetics, equilibria, aqueous chemistry, electrochemistry, and nuclear chemistry.

CHM 2046L General Chemistry II Laboratory (1) AS CHM
PR: CHM 2045L. Laboratory portion of General Chemistry II. Continuation of chemistry laboratory.

CHM 2210 Organic Chemistry I (3) AS CHM
PR: CHM 2046, CHM 2046L with a C or better. Fundamental principles of organic chemistry. Lecture.

CHM 2210L Organic Chemistry Laboratory I (2) AS CHM

CHM 2211 Organic Chemistry II (3) AS CHM
PR: CHM 2210 with a C or better. Continuation of organic chemistry.

CHM 2211L Organic Chemistry Laboratory II (2) AS CHM

CHM 3120C Elementary Analytical Chemistry (4) AS CHM

CHM 3610 Intermediate Inorganic Chemistry (3) AS CHM
PR: CHM 2046, CHM 2046L. Fundamental principles of inorganic chemistry including atomic structure, bonding theories and structural consequences, transition metal chemistry and illustrative laboratory work.

CHM 3610L Intermediate Inorganic Chemistry Laboratory (1) AS CHM
PR: Two semesters of general chemistry lecture and lab. CR: CHM 3610. Illustrative laboratory work concerning the fundamental principles of inorganic chemistry including atomic structure, bonding, transition metal chemistry, structural consequences and spectroscopic methods.

CHM 4060 Use of Chemical Literature (1) AS CHM
PR: CHM 2045, CHM 2046, CHM 2210, CHM 2211. Discussions and assignments using abstracts, bibliographies, indices, encyclopedias, journals, patent files, electronic databases, and other information sources to obtain chemical and technical material and including written and oral presentations. Career information and opportunities also discussed.

CHM 4070 Historical Perspectives in Chemistry 6A MW (3) AS CHM
PR: One year of college chemistry; or senior standing and CI. A study in depth of the historical and philosophical aspects of outstanding chemical discoveries and theories. Lec.-dis.

CHM 4130C Methods of Instrument Analysis (4) AS CHM
PR: CHM 3120C, CHM 2211, CHM 2211L, CHM 4060, CHM 4410. Theory and applications of instrumental methods in chemical research, chemical synthesis and analysis; electrochemical and calorimetric techniques, separation methods, spectroscopy, statistical analysis of data, computer data handling, and individual projects. Lec.-lab.

CHM 4131C Methods of Chemical Investigation II (4) AS CHM
PR: CHM 4130C. Continuation of CHM 4130C. Lec.-lab.

CHM 4300 Biomolecules I (3) AS CHM
PR: CHM 2211. Nature, structure, elucidation, synthesis and (in selected cases) organic chemical mechanisms of biochemical involvement of the major classes of organic compounds found in living systems.

CHM 4410 Physical Chemistry I (4) AS CHM
PR: CHM 2046, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049.
Thermodynamics, the state of matter and solutions are presented. The course includes a recitation.

CHM 4410L Physical Chemistry Laboratory (1) AS CHM
PR: CHM 4410. A physical chemistry laboratory with emphasis on modern techniques and instruments. Lab.

CHM 4411 Physical Chemistry II (4) AS CHM
PR: CHM 2046, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049. Introduction to quantum mechanics and molecular spectroscopy. Chemical Kinetics and statistical mechanics are also presented. The course includes a recitation.

CHM 4413 Biophysical Chemistry (3) AS CHM
PR: CHM 2046, CHM 4410, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049. This course will cover spectroscopy, bonding and kinetics with emphasis placed on biological molecules and biochemical reactions.

CHM 4611 Advanced Inorganic Chemistry (3) AS CHM
PR: CHM 4410, CHM 2046, MAC 2242 or MAC 2282 or MAC 2312 and PHY 2054 or PHY 2049. An advanced descriptive and theoretical treatment of inorganic compounds.

CHM 4905 Independent Study (1-3) AS CHM
PR: CI. S/U only. Specialized independent study determined by the student's needs and interests. The written contract required by the College of Arts and Sciences specifies the regulations governing independent study.

CHM 4932 Selected Topics in Chemistry (1-3) AS CHM
PR: CI. The course content will depend on the interest of faculty members and student demand.

CHM 4970 Undergraduate Research (1-3) AS CHM
PR: CI. S/U only.

CHM 5225 Intermediate Organic Chemistry I (3) AS CHM
PR: CHM 2211, CHM 2211L, or equivalent or CI or GS. This course will extend organic chemistry beyond the undergraduate level and will emphasize concepts of stereochemistry and reaction mechanisms.

CHM 5226 Intermediate Organic Chemistry II (3) AS CHM
PR: CHM 5225 or CI. An introduction to synthetic organic chemistry for graduate students and advanced undergraduates. Semester II.

CHM 5452 Polymer Chemistry (3) AS CHM
PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410 or graduate standing. Fundamentals of polymer synthesis, structure, properties, and characterization.

CHM 5621 Principles of Inorganic Chemistry (3) AS CHM
PR: CHM 4411, CHM 4610 or CI or GS. Chemical forces, reactivity, periodicity, and literature in organic chemistry; basic core course.

CHM 5931 Selected Topics in Chemistry (1-3) AS CHM
PR: CI. The following courses are representative of those that are taught under this title: Natural Products, Stereochemistry, Reactive Intermediates, Photochemistry, Instrumental Electronics, Advanced Lab Techniques, Heterocyclic Chemistry, etc.

CHS 2440 General Chemistry for Engineers (3) AS CHM
PR: 550 SAT Quantitative score or completion of MAC 1105 College Algebra with a grade of C or better AND one year of high school chemistry or completion of CHM 2023 with a grade of C or better. Introduction to important concepts and principles of chemistry with emphasis on areas considered most relevant in an engineering context.

CHS 2440L General Chemistry for Engineers Lab (1) AS CHM
CR: CHS 2440. Laboratory portion of General Chemistry for Engineers. Introduction to laboratory techniques, study of properties of elements, synthesis and analysis of natural and commercial materials.

CHS 4300 Fundamentals of Clinical Chemistry (3) AS CHM
PR: BCH 3023. Theoretical and practical aspects of the analysis of various body fluids, with emphasis on the medical significance.

CHS 4301L Clinical Laboratory (2) AS CHM
PR: BCH 3023 and CI, CHM 3120C. Laboratory experience in some of the most important clinical determinations. Lec.-Lab.

CHT 3110 Traditional Chinese Literature in Translation (3) AS WLE
This course is a general survey of traditional Chinese literature from the beginnings to the Qing Dynasty (1911). Major genres including philosophical texts, poetry, fiction, drama, and prose are explored in English translation.

CHT 3124 Modern Chinese Literature in Translation (3) AS WLE
An introductory survey of modern Chinese literature in translation. The course begins with the end of the Qing Dynasty (1644-1911) and extends into contemporary China. Taught in English and open to all majors. The course is not repeatable.

CHT 3500 Introduction to Chinese Culture (3) AS WLE
An introductory survey of Chinese cultural traditions with an emphasis on themes important to successful interaction in contemporary Chinese society. The language of instruction is English.

CHT 3512 Contemporary Chinese Language and Society (3) AS WLE
An introductory survey of modern Chinese language and society taught in English and open to all majors. Course activities revolve around developing an understanding of Chinese language and society in the Reform Era (1976-present).
COURSE DESCRIPTIONS

CHAT 3520 Chinese Film (3) AS WLE
A survey of Chinese film taught in English and open to all majors. This course traces the development of Chinese film and the Chinese film industry from its beginnings in the early 1900s through the contemporary period.

CIS 3201 Laws and Legal Aspects of IT (3) HM EIT
PR: CIS 3360. The course provides an overview of rights, responsibilities, and liabilities associated with IT systems today. Statutes, case histories, regulations, etc. will be discussed, to understand and control risk. Research topics will be assigned to students.

CIS 3303 Unified Modeling Language (3) HM EIT
PR: Working knowledge of an Object-Oriented programming language (not Visual Basic). The Unified Modeling Language (UML) is a world-class visual language for analysis and design of object-oriented systems. This course examines the various graphical tools and their applications in the context of extended case studies.

CIS 3360 Principles of Information Security (3) AS LIS

CIS 3362 Cryptography and Information Security (3) AS LIS
PR: MAD 2104 or permission of instructor. This course examines classical cryptography, entropy, stream and block ciphers, public key versus symmetric cryptography, one-way and trap-door functions, plus other specific tools and techniques in popular use.

CIS 3367 Architecting Operating System Security (3) AS LIS
PR: CIS 3360 or permission of instructor. This course examines tools and techniques for securing Windows and Linux operating systems. Students will acquire knowledge and skills to perform audit assessments and implement enterprise-wide operating system security.

CIS 3615 Secure Software Development (3) HM EIT
PR: COP 3515 and COP 4260. Information is power. It also has value. Thus, there is an incentive for unscrupulous individuals to steal information. This course covers a number of different techniques to help developers to build enterprise-level systems that are secure and safe.

CIS 3932 Special Topics for Information Technology (1-4) AS LIS
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

CIS 4203 Computer Forensics & Investigations (3) HM EIT
PR: Programming course and a math course. Teaches the methods of acquiring, preserving, retrieving, and presenting data that have been processed electronically and stored on computer media for use in legal proceedings. Focus on MS Windows systems.

CIS 4204 Ethical Hacking (3) HM EIT
PR: Programming course and a math course. Provides an understanding of computing, networking, exploitation techniques, used for IT security. In testing, a legal ethical hacker tries to penetrate a system, finds its weakest link and analyzes ways to correct security flaws.

CIS 4250 Ethical Issues And Professional Conduct 6A MW CPST (3) EN ESB
PR: Senior standing in the Department of Computer Science and Engineering. A capstone course for Department majors only, this course introduces students to ethical issues arising in the computer sciences, through written analysis and oral presentations of technical situations which involve ethical conflicts.

CIS 4253 IT Ethics 6A MW (3) AS LIS
PR: Basic computer skills. This course will cover issues that arise from the world of online communication and its impact on our daily lives through education, processes, and information. Class discussions cover various technologies and issues that are shaping our society.

CIS 4361 Information Technology Security Management (3) AS LIS
PR: Junior standing or above. An overview of information security management techniques and concerns is presented. Topics include: Access control systems, telecommunications and network security, security management practices, application and systems development security, cryptography, disaster recovery planning, legal and ethical issues, and physical security.

CIS 4364 Cryptology and Information Security (3) EN ESB

CIS 4365 Computer Security Policies and Disaster Preparedness (3) AS LIS
PR: CIS 3360. When an organization’s functioning is interrupted by disasters, accidents, or natural events, a loss of data and/or productivity may occur. The impact on the organization is determined by how prepared it is for dealing with these disruptions.

CIS 4368 Database Security and Audits (3) HM EIT
PR: Database course. An in-depth look at database security concepts and auditing techniques. Hands-on approach when examining security techniques. Examines different security strategies and advancements in implementation as well as problem solving.
CIS 4369 Web Application Security (3) HM EIT
PR: Students are expected to know the basics of HTML, JavaScript, and related technologies - this is a technical class. This is a comprehensive overview of Web applications and their common vulnerabilities. Web Goat will be used to give students pseudo practical experience with penetration testing tools and to give them concrete examples of the concepts of the class.

CIS 4412 Information Technology Resource Management (3) AS LIS
PR: Junior standing or above. An overview of the information resource management function, with emphasis on information systems management, is covered. Topics include planning, organizing, and controlling user services, managing information system development process, and the fundamentals of EDP auditing.

CIS 4510 I.T. Project Management (3) AS LIS
PR: CI. This course covers the general aspects of project management and emphasizes the important, special considerations which apply to information technology projects. Supporting software is used extensively.

CIS 4512 IT Project Risk Management (3) HM EIT
PR: CIS 4510 This course addresses the risks associated with the IT/Business environment. Risk Management plays a key role in the successful development and implementation of IT projects.

CIS 4514 Requirements Led PM/PM Software & Tools (3) HM EIT
PR: CIS 4510. This course focuses on an innovative approach to using project requirements to manage the project development life cycle.

CIS 4515 Managing Global/Remote Teams (3) HM EIT
PR: CIS 4510 Global/telecommuting teams deal with tough issues like isolation, lost emails, miscommunication, time zones, lack of face-to-face interactions, travel budget restrictions, and cultural differences which potentially impede productivity and effectiveness.

CIS 4518 Quality Issues in Project Management (3) HM EIT
PR: CIS 4510. This course explains concepts & principles of tenets of quality management & practical methodologies to implement them. It covers little q & big Q; addresses thinking, misconceptions & alternative theories, focusing on big Q to build a case for change.

CIS 4524 IT Project Schedule & Cost Control (3) HM EIT
PR: CIS 4510. Students will develop fundamental skills in estimating, scheduling, cost control, and reporting, essential for successful information technology projects.

CIS 4525 Contract Management & Negotiations (3) HM EIT
PR: CIS 4510 Today’s dynamic performance-based work environment requires partnerships and alliances to obtain a marketable mix of skills, tools and business practices. The course covers key aspects of contract negotiation planning, documenting and closing contracts.

CIS 4900 Independent Study In Computer Science (1-5) EN ESB
PR: COP 4530 or CDA 3201 and CI. Specialized independent study determined by the needs and interests of the student.

CIS 4910 Computer Science Project (2) EN ESB
PR: COP 4530. Offers a focused team-based design experience incorporating appropriate engineering standards and multiple realistic constraints. Projects are proposed by industry and/or other partners and are completed within a defined development process.

CIS 4915 Supervised Research in Computer Science (1-5) EN ESB
PR: COP 4530 or CDA 3201 and CI. Supervised research determined by the needs and interests of the student.

CIS 4930 Special Topics in Computer Science I (1-4) EN ESB
PR: COP 4530 or CDA 3201 and CI.

CIS 4932 Special Topics for Information Technology (1-4) AS LIS
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

CIS 4935 Senior Project in Information Technology (3-5) AS LIS
PR: Senior Standing in Information Technology. Graduates of the IT program must complete a major project dealing with a sub-domain of IT. Projects are supervised by a faculty member, or an approved industrial mentor. Projects range from design to programming, to implementations associated with IT.

CIS 4940 Industry Internship (0-6) EN ESB
PR: COP 4530 or CDA 3201 and CI. Individual study as practical computer science and/or computer engineering work under industrial supervision with a faculty approved outline and end-of-semester report. One semester for variable credit and S-U only.

CJC 4010 American Correctional Systems (3) BC CJP
PR: Junior standing, CCJ 3024 or CCJ 3117 or CI. Analysis of the different treatment philosophies and techniques currently in use in the field, with special attention to experimental and demonstration programs.

CJC 4166 Alternatives to Incarceration (3) BC CJP
PR: Junior standing, CCJ 3024 or CCJ 3117 or CI. This course explores a variety of alternatives to imprisoning the offender, including probation, parole, diversion, and other community-based intervention and treatment approaches.

CJE 3444 Crime Prevention 6A (3) AP CJP
PR: CCJ 3024, CCJ 3117. The aim of this course is to introduce students to the theories and constructs of crime prevention and reduction, as
COURSE DESCRIPTIONS

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well as techniques and policies used currently worldwide that would enhance US response to crime and justice. No restriction, not repeatable.

**CJE 3650 Introduction to Forensic Science (3) AP CJP**
This course provides students an appreciation of 'real life' forensic science and its role in the justice system. The class introduces students to the scientific techniques employed by the forensic science community. Not restricted or repeatable.

**CJE 3656 Introduction to Crime Analysis (3) AP CJP**

**CJE 4010 Juvenile Justice System (3) BC CJP**
PR: Junior standing, CCJ 3024 or CCJ 3117 or CI. Provides coverage of the juvenile and family courts, their clientele, and the complex of human services agencies and facilities that contribute to efforts at juvenile correctional intervention.

**CJE 4114 American Law Enforcement Systems (3) BC CJP**
PR: Junior standing, CCJ 3024 or CCJ 3117 or CI. This course provides a comprehensive examination of the American law enforcement system at the federal, state and local levels and an assessment of career opportunities within the community.

**CJE 4144 Private Security Systems (3) BC CJP**
PR: Junior standing plus CJE 4114, CCJ 3024, CCJ 3117, CCJ 3621 or CI. Examines some of the principal methods and techniques currently used to reduce or prevent losses due to theft and casualty.

**CJE 4610 Criminal Investigation (3) BC CJP**
PR: CCJ 3024 or CCJ 3117 or CI. Covers the major components of criminal investigation, with special attention to the scientific aspects of criminal investigation and the management of major cases.

**CJL 3110 Substantive Criminal Law (3) BC CJP**
PR: Junior standing, CCJ 3024, CCJ 3117, or CI. Examines the historical basis of the American criminal law system, the substantive elements of the crime, and court procedures.

**CJL 3502 Introduction to Courts (3) AP CJP**
Offers understanding of process & functions of US court system. Define & identify different aspects of law & crime; examine aspects of Federal & State court systems; trial process; examine roles of court workers; sentencing. Not restricted or repeatable.

**CJL 4115 Environmental Law and Crime (3) BC CJP**
PR: Junior standing, CCJ 3024 or CI. The course provides students with an introduction to issues in the area of environmental crime and environmental law.

**CJL 4410 Criminal Rights and Procedures (3) BC CJP**
PR: Junior standing, CCJ 3024 or CI. Emphasizes the Constitutional issues and rules that are applied and enforced by the courts while processing criminal cases.

**CLP 4433 Psychological Tests and Measurement (3) AS PSY**
PR: PSY 3213 with a grade of C or better or CI. An introduction to behavior analysis, and application of learning principles, behavioral measurement, research designs, and interventions in treatment settings.

**CLA 3103 Greek Civilization 6A HP CAHU (3) AS WLE**
This course surveys the major social, political, and cultural aspects of the ancient Greek world, examined both topically and chronologically across the centuries of the Ancient Greece, c. 1400 to 146 BCE.

**CLA 3124 Roman Civilization HP CAHU (3) AS WLE**
This course surveys the major social, political, and cultural aspects of the ancient Roman world, topically and chronologically, from 753 B.C.E to 476 CE, through the literary, historical, and artistic records of the Romans.

**CLA 3435 The Hellenistic World (3) AS HCS**
An examination of various aspects of Greek and Roman Culture, based on ancient sources, literary and archaeological. Repeatable as topics vary.

**CLA 3701 Women in Antiquity 6A HP CAHU (3) AS WLE**
This course surveys the major social, political, and cultural aspects of the ancient Greek world, topically and chronologically, from 753 B.C.E to 476 BCE, through the literary, historical, and artistic records of the Romans.
CLT 3370 Classical Mythology HP CAHU (3) AS
PR: PSY 3213, UG, C. The purpose of this course is to review the ethical, legal, and professional standards that direct the activities of health and mental health professionals. Ethical issues will be reviewed and an ethical decision making model will be presented.

CLT 3123 Roman Literature in Translation 6A MW
This course surveys the major literary texts of the ancient Roman world, examined through both the chronological order of their production (from the 3rd century B.C.E to the 2nd century C.E) and by genre (epic poetry, philosophy, lyric, history, and drama).

CLT 3511 Fictional Rome in American Film 3 AS WLE
Fictional Rome surveys filmic representations of ancient Rome in Hollywood, to illustrate the imaginative power of cinema to shape our perceptions of the Roman past, and exploitation of them in the context of contemporary American history and culture.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Co-requisites</th>
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<tbody>
<tr>
<td>COM 3120</td>
<td>Organizational Communication</td>
<td>3</td>
<td>PR: COM 2000 with C- or above or consent of instructor (CI). A survey of communication concepts which impact upon organizational effectiveness.</td>
</tr>
<tr>
<td>COM 3122</td>
<td>Interview Communication</td>
<td>3</td>
<td>A study of communication theory relative to persuasive interviewing with an emphasis on career interview situations.</td>
</tr>
<tr>
<td>COM 3413</td>
<td>Communication and Visual Culture</td>
<td>3</td>
<td>PR: COM 2000. Examines the nature and practices of seeing as fundamental to communication with special emphasis on cultural and rhetorical implications of visual practices in aesthetic, political, and social arenas.</td>
</tr>
<tr>
<td>COM 4016</td>
<td>Public Memory</td>
<td>3</td>
<td>PR: COM 2000, SPC 2541. Exploration of collective memory as public communication. Examines public memory as created and communicated in memorials, museums, mediated history, nostalgia, and story. For majors; non-majors by permit. Not repeatable for credit.</td>
</tr>
<tr>
<td>COM 4020</td>
<td>Communicating Illness, Grief, and Loss 6A (3)</td>
<td>AS SPE</td>
<td>PR: COM 2000 with C- or above or consent of instructor (CI). Focus on stories of illness, grief, and loss to make sense of these experiences; to understand the cultural and rhetorical influences on how stories are told; and to explore the context of everyday life, romantic relationship, families, institutions, and culture in which they occur.</td>
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<tr>
<td>COM 4021</td>
<td>Family Communication and the End of Life (3)</td>
<td>AS SPE</td>
<td>PR: COM 2000, SPC 3301. Explores theories and practices of family communication at end-of-life through language, relationships, bioethics, and case analysis techniques. For majors; non-majors by permit only. May not be repeated for credit.</td>
</tr>
<tr>
<td>COM 4022</td>
<td>Health Communication (3)</td>
<td>AS SPE</td>
<td>PR: COM 2000 with C- or above or consent of instructor (CI). Application of communication theory and research to the health context including provider-patient communication, health information campaigns, and health beliefs and behavior. Special attention to the value issues in health communication.</td>
</tr>
<tr>
<td>COM 4030</td>
<td>Women and Communication 6A MW (3)</td>
<td>AS SPE</td>
<td>Examines women's patterns of communication in a variety of contexts. Also offered under Women's Studies.</td>
</tr>
<tr>
<td>COM 4050</td>
<td>Globalization and Democratic Discourse (3)</td>
<td>AS SPE</td>
<td>PR: COM 2000, SPC 2541. Examines rhetoric of globalization and democracy from communication perspectives, especially the discourses of war, terrorism, nationalism, and security. For majors; non-majors by permit only. Not repeatable for credit.</td>
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<tr>
<td>COM 4104</td>
<td>Communication, Tourism, and Travel (3)</td>
<td>AS SPE</td>
<td>PR: COM 2000, ORI 2000. Focuses on cultural, experiential, and performative practices and meanings of travel and tourism as sites of communication inquiry. Majors only; non-majors by permit. Not repeatable for credit.</td>
</tr>
<tr>
<td>COM 4124</td>
<td>Communication and Organizational Change (3)</td>
<td>AS SPE</td>
<td>PR: COM 2000 with C- or above and COM 3120 or consent of instructor (CI). An advanced course covering current issues in organizational transformation (e.g., organizational dialogue, learning organizations, reengineering, work teams), and the role communication processes play in such changes.</td>
</tr>
<tr>
<td>COM 4128</td>
<td>Integrated Organizational Communication (3)</td>
<td>AS SPE</td>
<td>PR: COM 3120. Explores theories, practices, and functions of integrated communications strategies and tactics in organizational contexts. For Communication majors; non-majors by permit only. May not be repeated for credit.</td>
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<tr>
<td>COM 4151</td>
<td>Communication and Working Life in Cont Orgs (3)</td>
<td>AS SPE</td>
<td>PR: COM 3120. Explores workers and organizations through socialization, self-presentation, technologies, identity issues, and work-family balance. Majors only; non-majors by permit. May not be repeated for credit.</td>
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<tr>
<td>COM 4225</td>
<td>Global &amp; Cultural Issues in Health Communication  (3)</td>
<td>AS SPE</td>
<td>PR: COM 4022. Explores issues in global health, culture, and communication in health care initiatives. For majors; nonmajors by permit only. May not be repeated for credit.</td>
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<tr>
<td>COM 4414</td>
<td>Race and Gender in Popular Film and Television</td>
<td>AS SPE</td>
<td>PR: SPC 2541, COM 3051. Explores representations of race and gender in contemporary TV and film and utilizes feminist and critical race theories to interrogate social inequalities. Majors only. Non-majors by permit only. May not be repeated for credit.</td>
</tr>
<tr>
<td>COM 4490</td>
<td>Communication and Love (3)</td>
<td>AS SPE</td>
<td>PR: SPC 3301. Examines concepts, philosophy, and theories of love in connection with communication skills. Majors only; others by permission of instructor.</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

For majors; non-majors by permit. May not be repeated for credit.

COM 4710 Writing Lives 6A (3) AS SPE
PR: Junior/Senior standing or CI. Emphasizes writing stories about our lives and the lives of others as a way to understand, cope with and communicate social experiences.

COM 4931 Special Topics in Media Analysis (3) AS SPE
PR: SPC 2541, COM 3051. Selects contemporary topics in media, media genres, and forms to examine how social issues are reflected and changed. Majors only; non-majors by permit only. May be repeated for credit as topics change for 9 total credits.

COM 4942 Communication Intern Seminar (3) AS SPE
PR: Communication major, minimum GPA 3.0, 75 hours completed, 15 hours of core requirements and 9 elective hours completed, and CI. Seminar provides students with an opportunity to put into practice concepts and skills acquired in their study of communication. Weekly seminar sessions augment intern experience. Application for seminar must be submitted one semester prior to seminar offering.

COM 4958 Communication Senior Capstone CPST (3) AS SPE
PR: COM 2000, SPC 3301, ORI 2000, SPC 2541. This capstone course for the Communication major features projects linking theory to practice, real world communication situations, and critical analysis of audiences and issues. Senior standing. For majors only.

COM 5930 Topics in Communication Studies (3) AS SPE
Topical issues in communication.

COP 1930 Special Topics for Information Technology (1-3) AS LIS
Special topics course.

COP 2030 Programming Concepts I (3) HM EIT
This course covers basic programming concepts using the Python language for implementation and developing problem solving skills.

COP 2250 Object-Oriented Programming (Java SE) (3) HM EIT
This course introduces students to object-oriented programming concepts using Java but via a specially designed Integrated Development Environment (BlueJ). This enables students to directly create objects of any class to interact with their methods.

COP 2270 Programming in C for Engineers (3) EN ESB
PR: MAC 2281, MAC 2311 or MAC 2241. This class prepares students to use the C programming language and the MATLAB environment to develop solutions to small scale scientific and engineering problems.

COP 2510 Programming Concepts (3) EN ESB
PR: MAC 2281 or equivalent. An examination of a modern programming language emphasizing programming concepts and design methodology.

COP 2700 Database Systems Basics (3) HM EIT
PR: COP 2030. Database systems are described with particular emphasis on Relational Database Management Systems (RDBMS). SQLite is the target RDBMS. It is programmatically driven with the Python language and OpenOffice base.

COP 2930 Special Topics for Information Technology (1-3) AS LIS
Special topics course.

COP 2931 Special Topics for Information Technology (1-3) AS LIS
Special topics course.

COP 3257 JAVA for Experienced Programmers (3) EN ESB
PR: COP 3514 or equivalent. Program design and development using the JAVA programming language. Comparison of program design in a procedural language (C recommended) versus design in the JAVA language. Application development using advanced programming techniques.

COP 3259 Comprehensive Java (4) HM EIT
PR: COP 2250. The focus of this course is the comprehensive Java 6 SE specification which defines the advanced Java language features and capabilities.

COP 3331 Object Oriented Software Design (3) EN ESB
PR: COP 3514 Design of a computer program using an Object-Oriented programming language. Extension of programming knowledge from a procedural language to an object-oriented language. Analysis of program requirements.

COP 3375 Data Structures and Algorithms w/Python (4) HM EIT
PR: COP 2030. This course focuses on the Python language and covers its features and capabilities in depth.

COP 3415 Data Structures and Algorithms (3) HM EIT
PR: COP 3375. This course is intended to be a first course on data structures and algorithms, implemented using the Python language. As such it deals with abstract data types and data structures. It also deals with writing algorithms and problem solving.

COP 3514 Program Design (3) EN ESB
PR: COP 2510 or comparable introductory programming course and DPR. The class extends students' programming knowledge by systematically considering the concepts involved in program design and creation. Students will also build upon their previous programming experience by learning to use the C programming language in a networked environment.

COP 3515 Program Design for Information Technology (3) AS EIT
PR: COP 2510 or CI. Concepts associated with the design and implementation of computer programs
are studied, with emphasis on creation of programs to be developed and maintained in a variety of environments from small to large information technology organizations.

**COP 3718 Intermediate Database Systems** (3) HM EIT
PR: COP 2700. This course provides an in-depth treatment of working with Relational Database Management System (DBMS), with particular reference to MySQL. It also shows how to interface with MySQL using both PHP and Java languages.

**COP 3722 Advanced Database Systems Design** (3) HM EIT
PR: COP 2700. This course presents contemporary data modeling and database design techniques in a vendor-neutral manner. Students will learn to create conceptual, logical, and physical data models, specialized techniques for handling temporal and analytical data.

**COP 3931 Special Topics for Information Technology** (1-4) AS LIS
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

**COP 4020 Programming Languages** (3) EN ESB
PR: COP 4530. An introduction to the specification, design, and analysis of programming languages. Topics include syntax, operational semantics, type systems, type safety, lambda calculus, functional programming, polymorphism, side effects, and objects.

**COP 4260 Systems Programming: Java EE** (3) HM EIT
PR: COP 2250. This course covers Java EE, the Enterprise Java Platform. Java EE is a super-set of Java SE. This platform has matured to a degree where it can be both complete and lightweight, while, at the same time incorporating many new and enhanced tools.

**COP 4313 Symbolic Computations in Mathematics** 6A (3) AS MTH
PR: MAS 3105 and MAP 2302. Students will write programs to solve problems in various areas of mathematics including calculus and linear algebra with symbolic programming systems such as Maple, Mathematica, or Macsyma.

**COP 4365 Software System Development** (3) EN ESB
PR: COP 4530. Analysis, design, and development of software systems using objective methodology with object oriented programming and advanced software development tools (such as integrated development environments).

**COP 4376 Java-Based Python (Jython)** (3) HM EIT
PR: COP 3376 and working knowledge of Java. Focus is on the Python language as used with the Jython (Java-based) interpreter in a Java EE environment – Python enables the best of two worlds by bridging between the elegant, expressive code of the Python world and the "enterprise ready" Java world.

**COP 4530 Data Structures** (3) EN ESB
PR: COT 3100 and COP 3331. CSE majors only. Understand and implement fundamentals of concise data structure and organization for program efficiency, clarity and simplification. Implementation of different data types and structures. Understanding of current data structures.

**COP 4600 Operating Systems** (3) EN ESB
PR: COP 4530. Introduction to systems programming. Design of operating systems. Concurrent processing, synchronization, and storage management policies.

**COP 4610 Operating Systems for Information Technology** (3) AS LIS
PR: EEL 4854 or CI. Introduction to concepts and practices of modern operating systems. Topics include process, parallelism, memory management, resource allocation and file systems. Algorithms are used to understand many of the concepts associated with operating systems.

**COP 4610L Operating Systems Laboratory for Information Technology** (1) AS LIS
PR: EEL 4854 or CI. Implementation and evaluation of models discussed in the lecture part of the course. Students implement operating system algorithms in stand-alone mode, and modify real operating system code. Students implement and test algorithms in a lab environment.

**COP 4620 Compilers** (3) EN ESB
PR: COP 4530. Introduction to techniques for compiling software; lexical, syntactic, and semantic analyses; abstract syntax trees; symbol tables; code generation and optimization.

**COP 4656 Software Development for Mobile Devices** (3) EN ESB
PR: COP 4530. This course covers software development for mobile devices, mainly cellular phones. The primary goal of the course is to teach students how to design, develop, and deploy complete market-ready applications for mobile devices.

**COP 4703 Database Systems for Information Technology** (3) EN EIT
CR: EEL 4854 or CI. Fundamentals of database management systems are presented, covering relational, CODASYL, network, hierarchical, and object-oriented models. Topics include basic design concepts, analysis of efficiency as well as actual implementations of such systems.

**COP 4710 Database Design** (3) EN ESB
PR: COP 4530. This course covers the fundamentals and applications of database management systems, including data models, relational database design, query languages, and web-based database applications.

**COP 4814 Web Services** (3) AS LIS
PR: CI. The Web services model, based on the Open Standards of SOAP, WSDL, and UDDI, is studied and applied.

**COP 4816 XML Applications** (3) AS LIS
PR: CI. Completion of prerequisites for admission
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<tr>
<th>Course Code</th>
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<tr>
<td>COT 4400</td>
<td>Analysis Of Algorithms</td>
<td>PR: COT 4530, COT 4400. Computational</td>
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<td>COP 2002</td>
<td>Introduction to Comparative Politics SS (3) AS</td>
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<td>CPO 4034</td>
<td>Politics of the Developing Areas SS (3) AS GIA</td>
<td>PR: COP 4530, COT 3100. Advanced topics</td>
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<td>COT 4521</td>
<td>Computational Geometry (3) EN ESB</td>
<td>PR: COP 4530, COT 4400. Computational</td>
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<td>COP 4854</td>
<td>Rich Internet Applications (3) HM EIT</td>
<td>PR: CGS 3850, CGS 3853, COP 4816. This</td>
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<td>COP 4931</td>
<td>Special Topics for Information Technology (1-4)</td>
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<td>COP 5016</td>
<td>Introduction to Unix and C (3) EN ESB</td>
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<td>COT 3100</td>
<td>Introduction to Discrete Structures (3) EN</td>
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<td>COT 4115</td>
<td>Advanced Discrete Structures with Cryptology (3)</td>
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<td>COT 4210</td>
<td>Automata Theory and Formal Languages (3) EN</td>
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<td>COT 4400</td>
<td>Analysis Of Algorithms (3) EN ESB</td>
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**UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG**
forms from the couplet through the sonnet to such various forms as the rondel, ballad, villanelle, sestina, etc. Principles in the narrative, dramatic, and lyric modes are also explored.

**CRW 3312 Poetry I (3) AS ENG**
PR: CRW 3311. An introduction to poetry writing utilizing writing exercises employing poetic language and devices; the exercises progress to the writing of both rhymed and unrhymed metrical and non-metrical forms.

**CRW 3321 Poetry II (3) AS ENG**
PR: CRW 3311, CRW 3312. A poetry workshop which provides individual and peer guidance for the student's writing and which encourages the development of critical skills.

**CRW 4120 Fiction III (3) AS ENG**
PR: CRW 2100 or CRW 3111, CRW 3112, CRW 3121. An advanced fiction workshop in which works may be carried over from CRW 3121 or longer forms such as the novel may be begun.

**CRW 4320 Poetry III (3) AS ENG**
PR: CRW 3311, CRW 3312, CRW 3321. An advanced poetry workshop in which students are expected to create works exhibiting a firm knowledge of the principles explored in the preceding courses.

**CRW 4924 Advanced Creative Writing (3) AP ENG**
PR: (CRW 3013; UG; C-) OR (CRW 3013; ND; C-). This course provides advanced training in a specific genre or mode of writing; focuses on a single theme or genre; will further develop student capabilities in reading, critical thinking, and written expression. Repeatable for 6 credits.

**CRW 4930 Selected Topics in Creative Writing (1-4) AS ENG**
PR: 12 hours of CRW courses or CI. The focus of the course will be governed by student demand and instructor interest. Topics to be covered may include writing the literary essay, writing in mixed genres, and utilizing popular conventions in serious works. May be taken twice for credit with different topics.

**CTS 3165 Linux Essentials (3) HM EIT**
This course describes installation and configuration of Ubuntu Linux as a powerful desktop workstation capable of competing with the leading desktop operating system, but at a much lower cost. A wide variety of applications are installed to cover many areas.

**CTS 4348 Linux Administration (3) HM EIT**
PR: CTS 3165. The course provides the breadth and depth of material necessary to effectively implement and manage Linux servers in real-world business environments.

**CTS 4805 Web Development Tools (3) AS EIT**
PR: CI. This course builds on web design concepts and extends them to build and maintain complete Web Sites using the current de facto industry-standard integrated web site development environment/applications.

**CWR 4202 Hydraulics (3) EN EGX**
PR: EGN 3353. Fundamental and applied aspects of pipe flow, free surface flow, and unsteady flow for hydraulic systems.

**CWR 4540 Water Resources Engineering I (3) EN EGX**
PR: CWR 4202. A study of the engineering principles involved in sustaining and managing the quantity and quality of water available for human activities with particular emphasis on surface water and ground water hydrology.

**CWR 4541 Water Resources Engineering II (3) EN EGX**
PR: EGN 3353, CWR 4202. The course is intended to be a technical elective for students specializing in water resources or environmental engineering. Material in the course covers subsurface hydrology including both soil vadose zone processes and the ground water flow.

**CWR 4812 Capstone Water Resources/Environmental Design MW CPST (3) EN EGX**
PR: ENV 4001, CWR 4540. CR: ENV 4417, CEG 4012 or TTE 4005. A capstone water resources design experience for seniors in Civil and Environmental Engineering. A design-oriented course to design both industrial and domestic water treatment and water transport systems and hydraulic systems.

**DAA 2100 Fundamentals Of Modern Dance (2) FA DAN**
A studio class for students with a serious interest in concert modern dance. Emphasis upon correct alignment, development of strength, rhythmic and dynamic activity, as well as spatial and locomotor patterns. May be repeated up to six credit hours.

**DAA 2104 Modern Dance I (2) FA DAN**
PR: Admission by placement audition. A studio class for students with a serious interest in concert modern dance. Further emphasis on correct alignment, development of strength, rhythmic and dynamic activity as well as spatial and locomotor patterns. May be repeated up to 8 credit hours.

**DAA 2200 Fundamentals Of Ballet (2) FA DAN**
A studio class for students with a serious interest in Ballet. Emphasis on correct alignment of the body and a progressive development of positions and barre exercises as well as the application of combinations in center work using classical Ballet vocabulary (French terms). May be repeated.

**DAA 2204 Ballet I (2) FA DAN**
PR: Admission by placement audition. A studio class for students with a serious interest in Ballet. Further emphasis on correct alignment of the body and a progressive development of positions and barre exercises as well as the application of combinations in center work using classical Ballet vocabulary (French terms). May be repeated.

**DAA 2500 Fundamentals Of Jazz Dance (2) FA DAN**
A basic movement course in Jazz Dance involving dance vocabulary, alignment, styles and simple rhythmic patterns. May be repeated up to 6 credits.
DAA 2504 Jazz Dance (2) FA DAN
PR: Admission by placement audition and DAA 2500. A technique class for the intermediate level dancer to become acquainted with the dance styles and forms of musical theatre and concert jazz dance. Emphasis is on highly stylized movement with a strong rhythmic base. May be repeated.

DAA 2570 Jazz Theatre Dance (3) FA DAN
PR: Admission by placement audition and DAA 2504. Further emphasis on projection, phrasing, rhythmic patterns and dynamics. Solo and ensemble studies leading to performance. May be repeated up to 6 credits.

DAA 3108 Modern Dance II (3) FA DAN
PR: Admission by placement audition. Study of principles of modern dance technique. Practical work in exercises and movement phrases, utilizing changing rhythms and dynamics. Concert and performance attendance required. May be repeated.

DAA 3109 Modern Dance III (2-3) FA DAN
PR: Admission by placement audition. Continuation of DAA 3108. Further emphasis on style and phrasing. Work on projecting mood and quality by dancing and rehearsing in more advanced choreography, leading to performance. May be repeated.

DAA 3209 Ballet III (1-3) FA DAN

DAA 3214 Ballet II (3) FA DAN
PR: Admission by placement audition. Positions and barre exercises. Emphasis on correct alignment of the body and the application of simple step combinations in centre work. The use of ballet vocabulary (French terms). Material is covered almost totally as practical work in class with a few outside projects. Concert and performance attendance required. May be repeated.

DAA 3294 Ballet Variations (1) FA DAN
PR: DAA 3209. This course provides instruction in various forms of ballet. Semester courses include: Pointe technique, Men's Class, Character Dance, Spanish Dance and Partnering. BFA Ballet concentration students are required to complete two semester hours. May be repeated.

DAA 3395 World Dance Topics (1) FA DAN
Students will experience fundamental knowledge of dance representing various world cultures. In addition to a dance/movement component, a connection will be made to historical, spiritual/religious, ethnological and environmental indigenous aspects of people involved in dance as a cultural experience. May be repeated.

DAA 3614 Choreography I (2) FA DAN
PR: DAN 3614, CR: DAA 3108. BFA students must be concurrently enrolled in Modern III/IV and Ballet III. Study and execution of basic principles of composition. Preparation of studies in theme and variations, breath phrases and metric phrases.

DAA 3615 Choreography II (2) FA DAN
PR: DAA 3614. Preparation of studies in rhythm, dynamics, form and motivation.

DAA 3624 Dance Improvisation (2) FA DAN
For majors and non-majors. Exploring various methods of spontaneously creating dance movement in individual and group situations. Structured and unstructured approaches will be explored. May be repeated.

DAA 3654 Repertory I (1) FA DAN
PR: Admission by audition. The development and performance of solo and/or group dances.

DAA 3684 Repertory II (1) FA DAN
PR: Admission by audition. The development and performance of solo and/or group dances.

DAA 3686 Junior Performance Project (1) FA DAN
PR: Admission by audition. Required for junior dance majors. Involves rehearsal and performance of work presented by a senior dance major in the dance program. Open to all university students proficient in dance techniques and concurrently enrolled in technique courses. Repeatable.

DAA 4110 Modern Dance IV (3-4) FA DAN
PR: Admission by placement audition. Intense work on the growth of personal performance styles. Equal emphasis will be given to training the body in the development of technical excellence. May be repeated.

DAA 4211 Ballet IV (1-4) FA DAN
PR: Admission by placement audition or CI. Perfecting the execution of barre work. Intensification of centre work. More stress on aesthetic quality of movement and phrasing. Students expected to be proficient in pointe work. Outside projects, concerts, and performances are required. May be repeated.

DAA 4616 Choreography III (2) FA DAN
PR: DAA 3615. CR: DAA 3109 or above. Work directed toward duets and group dances. The students will submit choreographic ideas for instructor's approval, then proceed with rehearsals. Lec-lab., reading. Rehearsal hours to be arranged.

DAA 4617 Choreography IV (2) FA DAN
PR: DAA 4616. The student will prepare studies based on free form, minimal art, and chance methods. Lec-lab., reading.

DAA 4687 Performance (1-2) FA DAN
PR: Admission by audition. Open to all university students proficient in dance techniques and concurrently enrolled in Technique. Involves rehearsal and performance of works presented by the department. May be repeated.

DAA 4694 Senior Choreography Project (1-5) FA DAN
PR: Dance majors with senior standing. The creation of an original group work and solo within the senior's major concentration-ballet or modern. To be performed and presented with the
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG**

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**DAN 4930 Dance Studies (1-4) FA DAN**
PR: CI and CC. Dance Major status. Individual study to extended competency in technique and performance of Dance through participation in special workshops.

**DAE 4340 Dance Pedagogy: Secondary Curriculum (3) FA DAN**
This course is designed to meet the needs of students in Dance Education to understand the scope and sequence of dance curriculum design and teaching methods appropriate to the secondary student.

**DAN 2100 Introduction To Dance 6A FA (3) FA DAN**
For majors and non-dance majors, a study of the art and language of dance through lectures, discussions, concert attendance, and studio practice. Designed to develop awareness and insight of this art form through discussion, observation, writing, and movement experience.

**DAN 2160 Entry Seminar (2) FA DAN**
This is a study of dance-related career opportunities through lectures, assigned reading and video viewing. This course will aid majors in understanding dance as an aesthetic art form through discussion and critical evaluation.

**DAN 3584 Technical Theatre in Dance (2) FA DAN**
An introductory course in technical production including lighting, sound, scenic, stage management/production and front of house. Requires load-in hours/crew assignments during USF Fall and Spring Dance Concerts.

**DAN 3614 Music For Dance (2) FA DAN**
PR: Designed for majors and non-majors. Development of musical skills in movement studies. Continued study of the inter-relationship of music and dance through movement experiences, observations, video, and writing.

**DAN 3615 Music For Dance II (2) FA DAN**

**DAN 3714 Dance Kinesiology (3) FA DAN**
This course will give the student an understanding of basic human anatomy and how it functions in relation to movement, injury prevention, teaching and performance. Individual structural differences and how these affect movement potential will also be studied. There will be an emphasis on the kinesiological analysis of movement with the goal of increased efficiency, enhanced performance and injury prevention.

**DAN 4134 Ballet History 6A WRIN LW (3) FA DAN**
This is a lecture course in dance history stemming from its roots in Renaissance court dance through the mid-20th century focusing primarily on the history of ballet as an art form.

**DAN 4135 20th Century Dance MW CPST (3) FA DAN**
Designed for majors and non-majors, this course will trace the development of dance as an art form in the 20th Century. It is designed to develop awareness and insight through lecture, discussion, video, observation and writing. Students will be required to attend at least two dance performances.

**DAN 4162 Research in Dance (2) FA DAN**
PR: Dance major with Junior standing, and completion of two courses in secondary area. Course will introduce basic research methodologies for conducting research in the dance genre, and will serve the student in preparing for future research based study in the field of dance. Students will conduct library, internet, and field research.

**DAN 4180 Dance Senior Seminar (2) FA DAN**
PR: Dance major with senior status. A study of career opportunities in performance, teaching, research, design, and choreography. To aid majors in self-appraisal as artists and develop methods to further their potential in the professional world. Discussion, critical evaluation and projects.

**DAN 4434 Laban Movement Analysis (3) FA DAN**
Specialized study in movement theories, body alignment, and movement patterns focusing on the scientific and analytical basis of movement in dance with consideration for developmental processes, technique, creative expression, and performance.

**DAN 4906 Directed Study (1-5) FA DAN**
PR: CI. CC. Independent studies in the various areas of Dance. Must receive approval prior to registration. May be repeated.

**DAN 4930 Selected Topics In Dance (1-5) FA DAN**
PR: CI and CC. The content of the course will be governed by student and instructor interest. May be repeated by majors.

**DEP 2004 The Life Cycle (3) BC GEY**
An examination of individuals and the physical, cognitive, personality, and social changes which occur throughout the entire life span.

**DEP 3103 Child Psychology SS (3) AS PSY**
Not for major credit. Developmental and psychosocial aspects of childhood, including hereditary, maturational, psychological, and social determinants of child behavior.

**DEP 4053 Developmental Psychology (3) AS PSY**
PR: PSY 3213 with a grade of C or better or CI. Survey of methods, empirical findings, and theoretical interpretations in the study of human development.

**DEP 4220 Autism Spectrum Disorders (3) AS PSY**
PR: PSY 3213, UG, C. Overview of research; information about causes of disorder; historical and philosophical views; biological & psychological research; efforts to help individuals live productive & independent lives; recent controversies; integrative approach to treatment.

**DIE 3310 Community Nutrition (3) PH CFH**
PR: HUN 2201 An introduction to federal, state, and local nutrition intervention programs and their impacts. Emphasis is placed on diagnostic tools used in community nutrition and programs as well as methods used to address community nutrition...
issues. Course is not restricted to majors. It is not repeatable for credit.

**EAB 4715 Supervised Practicum and Field Experience in Applied Behavior Analysis (1-6)**

**AS PSY**

PR: PSY 4933 with a grade of B or better. Does not count toward major credit. (S/U only). Field experience in Behavior Analysis in applied settings. Under the supervision, involves the design, implementation and evaluation of behavior analysis methods in applied settings. Includes both field practicum and didactic components. May be repeated for a maximum of 6 hours.

**EAP 1850 English for International Students I (6)**

**AS WLE**

PR: Department Permission Required This course supports the development of academic English for international students, with an emphasis on processing, analyzing, and integrating information from academic texts and lectures, and applying pragmatic skills in university interactions.

**EAP 1851 English for International Students II (6)**

**AS WLE**

This course supports the development of academic English for international students, with an emphasis on researching and producing papers and presentations in a variety of academic genres with appropriate academic language use.

**EAS 4121 Hydro and Aerodynamics (3)**

**EN EGR**

PR: EML 3701, MAP 2302. Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.

**EBD 4011 Introduction to Behavior Disorders (3)**

**EN EDS**

PR: EEX 4012, or equivalent or DPR. Survey of emotional, behavioral and social disorders in children and youth. History of the field, definitions, classifications, theoretical approaches, intervention techniques, classroom management, service delivery models, trends and issues.

**EBD 4909 Directed Study: Behavior Disorders (1-3)**

**EN EDS**

PR: Senior standing, DPR. To extend competency in teaching field.

**EBD 4941 Undergraduate Supervised Practicum in Behavior Disorders (1-6)**

**ED EDS**

PR: EEX 4012. S/U only. DPR. Supervised field experience in assessment, classroom management, and clinical teaching with children who have emotional and behavioral disabilities.

**ECH 3023C Material and Energy Balances (4)**

**EN ECH**

PR: PHY 2049, MAC 2283, CHM 2046. CP: EGN 3343. Integration of previous knowledge into the definition of reactors and separation processes, through the hierarchical use of material balance, phenomenological and energy balance equations. Representation of streams as arrows and processes as black boxes in Box Flow Diagrams, BFD. Application of degree of freedom analysis.

**ECH 3240L Chemical Engineering Laboratory I (3)**

**EN ECH**

PR: ECH 3023C, ENC 3246, EGN 3443. Laboratory experiments in mass and energy balances, transport phenomena and chemical engineering thermodynamics. Accompanied by lectures on safety, data analysis, obtaining information, practice of chemical engineering and professional preparation.

**ECH 3702 Instrument Systems I (3)**

**EN ECH**

PR: MAP 2302 or EGN 3433, EGN 3343 and ECH 3023 or Cl. Basic concepts of electric circuits and their applications. Resistors, capacitors, inductors, logic operations, junction devices. Programmable Logic controllers, ladder diagrams.

**ECH 4123 Chemical Engineering Thermodynamics (3)**

**EN ECH**

PR: ECH 3023, EGN 3343, MAP 2302 or EGN 3433. Correlation of thermodynamic properties of real systems and solutions. Description of multicomponent, multiphase systems in equilibrium. Applications to separation processes and reactor design.

**ECH 4241L Chemical Engineering Laboratory II (3)**

**EN ECH**

PR: ECH 4265C, ECH 3240L. Laboratory experiments in reaction engineering, process control, heat and mass transfer. Lectures on theoretical concepts explored, sensors and data acquisition, data analysis, uncertainty analysis and experimental design.

**ECH 4244L Chemical Engineering Lab III (1)**

**EN ECH**

PR: ECH 4415C, ECH 4243L. Chemical Engineering Processes laboratory experiments: fluid flow, heat transfer, reacting systems, and process control. Majors only. Not repeatable for credit.

**ECH 4264 Transport Phenomena (4)**

**EN ECH**


**ECH 4265C Mass Transfer Operations (4)**

**EN ECH**

PR: ECH 4845, ECH 4264, ECH 4123. Integration of phase equilibria with the principles of fluid mechanics, heat and mass transfer in the description of separation processes. Selection of the number of stages and limiting operating conditions in cascades -- NTU and HTU. Sizing of partial condensers and pressure differential in columns. Transfer to single particles.

**ECH 4323C Process Dynamics and Control (3)**

**EN ECH**


**ECH 4415C Reaction Engineering (4)**

**EN ECH**

PR: CHM 2210, ECH 4265C. Integration of
ECH 4605 Product and Process Systems Engineering (3) EN ECH

ECH 4615 Product and Process Design MW CPST (3) EN ECH
PR: 4415C, ECH 4605. CR: ECH 4323C. Synthesis and analysis of economically feasible and environmentally acceptable chemical processing routes; Design of safe chemical production and treatment facilities; Chemical product design; Computer Aided-Design; Case studies and Design Project.

ECH 4644 Process Equipment and Safety (3) EN ECH
PR: ECH 4264, ECH 4123. CoPR: ECH 4265. Design, sizing, selection and preparation of equipment specifications for the process industry in accordance with process safety management guidelines and OSHA requirements.

ECH 4846 Numerical Methods in Chemical Engineering (4) EN ECH

ECH 4905 Independent Study (1-4) EN ECH
PR: CI. Specialized independent study determined by the student's needs and interests. Students must have contract with instructor.

ECH 4931 Special Topics in Chemical Engineering II (1-4) EN ECH
PR: CI.

ECH 4936 Undergraduate Seminar (1) EN ECH

ECH 5320 Chemical Process Engineering I (4) EN ECH
PR: Bachelors degree in science, math, or engineering. The course presents the principles of mass balances, classical thermodynamics, phase equilibria, energy balances, and psychrometrics. The student will learn by doing many case studies. Computer software will be used to obtain solutions to many problems.

ECH 5321 Chemical Process Engineering II (4) EN ECH
PR: Bachelors degree in science, math, or engineering. Basic concepts of fluid mechanics, including viscous fluids, pipe flow with minor losses, simple fluid machinery, momentum and external flow. Steady state conductive and convective heat transfer. Not available for chemical engineering students.

ECH 5322 Chemical Process Engineering III (4) EN ECH
PR: Bachelors degree in science, math, or engineering. Basic concepts of fluid phase equilibrium, chemical equilibrium, separation processes, and chemical reactors. Not available for chemical engineering students.

ECH 5324 Automatic Process Control II (3) EN ECH
PR: ECH 4263C or CI, majors only / 2 hrs lec., 3 hrs. lab/week. The course covers the root locus and frequency response methods to study stability of control loops. The techniques of ratio, cascade, feed forward, selective, override, and multi-variable control techniques are discussed in detail and shown how to utilize to design control systems, z-transforms and discrete controllers including PID, Dahlin and deadline compensation.

ECH 5327 Chemical Process Control (4) EN ECH
PR: Bachelors degree in science, math, or engineering. Basic concepts of feedback control, process dynamics, process controllers (PID) including tuning, control loop stability, cascade, ratio, selective, override, feedforward, and multivariable control. Not available for chemical engineering students.

ECH 5740 Theory and Design of Bioprocesses (3) EN ECH
Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems.

ECH 5747C Selected Topics in Chemical Engineering Biotechnology (1-3) EN ECH
PR: Senior or GS standing in engineering or CI. Open to majors and non-majors with CI. Selected topics in engineering in biotechnology, including cell separation technology, immobilized enzymes and cells, food engineering, biohazardous waste, and bioseparations.

ECH 5748 Selected Topics in Biomedical Engineering (1-3) EN ECH
Selected topics in biomedical engineering, including biomedical engineering, biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems.

ECH 5785 Sustaining the Earth: An Engineering Approach (3) EN ECH
PR: CI. An approach of global perspective on ecological principles revealing how all the world’s life is connected and sustained within the biosphere.
**ECO 3622 American Economic History**  
PR: Senior or Graduate Standing in Engineering, Public Health, Science Synthesis and design of green chemical, biological and energy conversion processes and products. Environmental impact analysis; green chemistry and materials; life cycle analysis; industrial ecology; systematic methods and real-life examples.

**ECH 5930 Special Topics III (1-4) EN ECH**  
PR: CI.

**ECH 5931 Special Topics IV (1-4) EN ECH**  
PR: CI.

**ECO 1000 Basic Economics SS CASB (3) BA ECN**  
No credit after completing either ECO 2023 or ECO 2013. Survey of economic principles and issues. Scarcity, choice, markets, prices, the monetary system, unemployment, inflation, international trade and finance.

**ECO 2013 Economic Principles (Macroeconomics) SS CASB (3) BA ECN**  
ECO 2013 introduces students to basic economic terminology, definitions and measurements of macroeconomic data, simple macroeconomic models, fiscal and monetary policy, and international macroeconomic linkages.

**ECO 2023 Economic Principles (Microeconomics) SS (3) BA ECN**  
Introduction to the theory of price determination. How an economy decides what to produce, how to produce, and how to distribute goods and services.

**ECO 2935 Selected Topics In Economics (1-3) BA ECN**  
Not available for credit to upper-level students admitted to the College of Business. Topics selected by department. May be repeated if topics vary.

**ECO 3101 Intermediate Price Theory (3) BA ECN**  
PR: ECO 2023 and MAC 2233 or MAC 2311 or equivalent. The price system and allocation of scarce resources between competing uses. May not receive credit for both ECP 3703 and ECO 3101.

**ECO 3203 Intermediate Macroeconomics (3) BA ECN**  
PR: ECO 2013 and ECO 3101 or ECP 3703 with a grade of "C" or better and MAC 2233 or MAC 2311 or equivalent. Determination of income, employment, prices, and interest rates. Aggregate demand and aggregate supply.

**ECO 3622 American Economic History (3) BA ECN**  

**ECO 3703 International Economics MW (3) BA ECN**  

**ECO 4105 Advanced Price Theory (3) BA ECN**  
PR: ECO 3101 or ECP 3703 with a grade of "B" or better. An advanced survey of special topics in microeconomics: borrowing and saving, decision making under uncertainty, markets for capital and labor, game theory, production and exchange efficiency, social welfare, and efficiency consequences of market and non-market allocation.

**ECO 4201 Advanced Macroeconomic Theory (3) BA ECN**  
PR: ECO 3203 with a grade of "B" or better. An advanced analysis of a particular topic or topics in macroeconomics. Areas of study include the theories of money, growth, and business cycles. Discussions of how such theories accord with the data are also presented.

**ECO 4270 Economic Growth (3) BA ECN**  
PR: ECO 3101 or ECP 3703. This course provides an introduction to the theory of economic growth, the process whereby the level of real output per capita increases over time. Emphasis is on the role of factor accumulation and productivity growth and their underlying fundamentals.

**ECO 4303 History Of Economic Thought (3) BA ECN**  

**ECO 4323 Radical Political Economy MW (3) BA ECN**  
PR: ECO 1000 or ECO 2013 or ECO 2023 or CI. The radical (left) and Marxist schools of thought in economics. Application of radical theory to problems of advanced capitalist and socialist societies.

**ECO 4401 Introduction to Mathematical Economics (3) BA ECN**  
PR: ECO 3101 or ECP 3703, and MAC 2241 or MAC 2233 or CI. Mathematical models of optimizing behavior and economic equilibrium.

**ECO 4421 Introduction to Econometrics (3) BA ECN**  
PR: ECO 3101 or ECP 3703, and QMB 3200 with a grade of "B" or better or CI. Survey of basic econometric techniques. Regression analysis employed to estimate consumption, investment, demand, cost, and production functions. Examines problems of auto-correlation, heteroscedasticity, multicollinearity, and specification errors.

**ECO 4504 Public Finance (3) BA ECN**  
PR: ECO 3101 or ECP 3703 with a grade of "C" or better. The public sector and its contribution to economic welfare. Government expenditures and revenues. Resource allocation, income distribution, stabilization, and economic growth.

**ECO 4704 International Trade and Policy (3) BA ECN**  
PR: ECO 3101 or ECP 3703 with a grade of "C." or better. Advanced analysis of international trade theory and commercial policy, international economic integration, multinational enterprise.
### COURSE DESCRIPTIONS

**ECO 4713 International Macroeconomics (3) BA ECN**  
PR: ECO 3101 or ECP 3703 with a grade of "C-" or better. Advanced analysis of international macroeconomic relationships. Foreign exchange market, international monetary system balance of payments.

**ECO 4905 Independent Study (1-3) BA ECN**  
PR: CI. S/U only. Specialized independent study determined by the student's needs and interests. May be repeated up to 6 hours.

**ECO 4914 Independent Research (1-3) BA ECN**  
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 6 hours.

**ECO 4935 Selected Topics in Economics (1-3) BA ECN**  
Topics to be selected by the instructor or instructors on pertinent economic issues.

**ECO 4970 Marketing Honors Thesis (3) BA ECN**  
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

**ECP 3201 Economics of Women and Work MW (3) BA ECN**  
PR: ECO 1000 or ECO 2013 and ECO 2023. Survey of research on women, men and work in the labor market and the household. Focuses on the economic status of women. Includes historical perspective, examination of the family as an economic unit, changing work roles, and gender differences in occupation and earnings.

**ECP 3203 Labor Economics (3) BA ECN**  
PR: PR: ECO 3101 or ECO 3703 with a grade of "C-" or better. Determinants of wage and employment levels; occupational, industrial and geographical wage differentials; union and public policy effects on labor markets; the economics of discrimination; inflation, and unemployment.

**ECP 3302 Environmental Economics MW (3) BA ECN**  
PR: ECO 2023. An economic analysis of environmental issues. The economics of resource use and pollution control are examined using the concepts of externalities, cost-benefit analysis, public goods, and property rights.

**ECP 3403 Industrial Organization (3) AS ECN**  
PR: ECO 3101 or ECO ECP 3703. Behavior of firms and market structure when the standard assumption of perfect competition in the market is violated. Existence of market power, how firms create and maintain it, implications of market power, and related public policy issues.

**ECP 3413 Economics of Regulation and Antitrust (3) BA ECN**  
PR: ECO 2013 and ECO 2023. Economic analysis of the rationale and performance of government regulation and antitrust policy. Examination of antitrust issues such as price fixing, mergers, and monopolization, and issues regulating electric utilities, airlines, trucking, consumer product safety, product quality, and the environment.

**ECP 3530 Economics of Health (3) BA ECN**  
PR: ECO 3101 or ECP 3703 with a grade of "C-" or better. Application of economic methods to health care topics such as demand for medical care, public and private health insurance, physician and hospital supply of medical care, government regulations, and national healthcare systems.

**ECP 3613 Urban Economics MW (3) BA ECN**  
PR: ECO 3101 or ECO ECP 3703. The role of space in understanding urban areas and their problems. Economic forces determining where people and firms locate within urban areas. Urban economic growth and development, land-use regulation, urban sprawl, transportation, urban government.

**ECP 3703 Managerial Economics (3) BA ECN**  
PR: ECO 2023. Application of microeconomic theory to problems in business decision making with a special focus on price determination. May not receive credit for both ECP 3703 and ECO 3101. Formerly ECO 3100.

**ECP 4006 Economics of Sports (3) BA ECN**  
PR: ECO 3101 or ECO 3703. This course teaches economics using sports as a backdrop. Topics covered include the economics of labor markets, exploitation, discrimination, monopoly, monopsony, game theory, bargaining, and cartels. No particular knowledge of sports is required.

**ECP 4451 Law and Economics (3) BA ECN**  
PR: ECO 2013 and ECO 2023. Advanced analysis of the economic impact of tort, criminal, property, and contract law as well as in the formation and adjudication of law.

**ECP 4505 Economics of Crime (3) BA ECN**  

**ECP 4704 Economics of Business Strategy (3) AS ECN**  
PR: ECO 3101 or ECP 3703. This course examines strategies businesses can employ to improve their abilities to compete profitably. Employs game theory to examine horizontal and vertical boundaries of firm, strategic diversification, pricing, and entry deterrence.

**ECS 3013 Economic Development (3) BA ECN**  

**ECS 4003 Comparative Economic Systems MW (3) BA ECN**  
PR: ECO 1000 or ECO 2013 or ECO 2023 or CI. The major economic systems: traditional, capitalism, democratic socialism, communism and fascism.

**ECS 4430 Economics of Latin America AP MW (3) BA ECN**  
PR: ECO 1000, or BOTH ECO 2013 and ECO 2023.
 COURSE DESCRIPTIONS

The course examines key aspects of economic reform efforts in Latin America and the Caribbean and the challenges facing the region at the beginning of the 21st century.

ECT 4905 Independent Study: Industrial-Technical Education (1-4) ED EDV
PR: CI. S/U only. Specialized independent study determined by the student's needs and interests.

ECT 4909 Directed Study: Industrial-Technical Education (1-3) ED EDV
PR: CI. To extend competency in teaching field.

ECT 4936 Senior Seminar in Industrial-Technical Education (2) ED EDV
PR: Senior standing; CR: EVT 4940. Synthesis of teacher candidate's courses in complete college program.

ECT 5386 Preparation and Development for Teaching (4) ED EDV
The development of selected instructional materials, use of new educational media, performance evaluation instruments, and counseling techniques.

ECW 5315 Program Management: Diversified Cooperative Training (3) ED EDV
Organization, coordination, and budgeting of adult, cooperative, and special programs.

EDE 4223 Creative Experiences for the Child (3) ED EDU
PR: Acceptance into College of Education. Provides students with critical understanding of visual arts, music, movement, and drama in K-6 curriculum. Students will develop knowledge and strategies to incorporate creative expression into integrated curriculum. Restricted to majors. Not repeatable.

EDE 4301 Instructional Planning for Diverse Learners (3) ED EDU
PR: Admission to the program in the Department of Childhood Education. This course examines the legal issues affecting classroom/school management, school safety, professional ethics and elementary school methods. The course explores the current knowledge of best practices of a variety of teaching and management strategies and methods deemed appropriate for a diverse elementary classroom setting including ESOL students and other exceptionalities.

EDE 4504 Creating and Differentiating Learning Environments (3) ED EDU
Approaches to managing the elementary instructional environment and specific strategies for maintaining a safe, positive classroom climate are examined as well as current knowledge of innovative best practices in differentiated instruction.

EDE 4905 Independent Study: Elementary Education (1-4) ED EDU
S/U only. Specialized independent study determined by the student's needs and interests.

EDE 4909 Directed Study: Elementary Education (1-3) ED EDU
PR: Senior standing. To extend competency in teaching field.

EDE 4940 Internship: Elementary Education (3-12) ED EDU
PR: EDE 4941 and EDE 4942; CR: EDE 4936. S/U only. Teacher candidate required to demonstrate professional competencies during full day internship in a public or private elementary school. Course restricted to Elem Ed majors. Course will be repeatable for credit (total 10 min - 12 max hrs).

EDE 4941 Childhood Education Internship Level I (3) ED EDU
PR: Admission to the Elementary Education. CR: RED 4310, EDG 4620. Concurrent enrollment in EDG 4620-Elementary section. S/U only. Students spend two days per week in a supervised in-school experience and attend a weekly seminar.

EDE 4942 Childhood Education Internship Level II (3) ED EDU
PR: EDE 4941, RED 4310, EDG 4620, EDF 3122, LAE 4314, EDE 4301, MAE 4310, SCE 4310, LAE 4414, SSE 4313, EME 2040. Students spend two days per week in a supervised internship experience in classroom settings and attend a weekly seminar. Course is restricted to Elementary Education majors. Course is repeatable for credit, for a total of 6 credit hours.

EDE 4943 Alternative Setting Field Experience (3) ED EDU
PR: EDE 4942. This alternative setting field experience course provides Undergraduate Teacher Candidates with opportunities to work with children in non-traditional, diverse settings and integrate course and field experiences to facilitate learning.

EDE 4944 Childhood Education Internship Level III (3) ED EDU
PR: EDE 4942. This internship experience complements foundational coursework expected in the Elementary Education program. Students spend two full days per week in an internship experience in K-6 classrooms. The classroom experiences are supplemented by a weekly seminar.

EDF 2005 Introduction to the Teaching Profession (3) ED EDC
Introductory survey course required for admission into the College of Education. A broad overview of the history, sociology and philosophy of education in the United States focuses on education as a field of study and teaching as a profession. Includes lecture and field experience.

EDF 2085 Introduction to Diversity for Educators (3) ED EDC
PR: EDF 2005 Introductory survey course required for admission into the College of Education. Places schools and teaching within the context of the U.S. as a pluralistic society. Topics include: the demographics of diversity; prejudice; elements of culture; American heritage of diversity and its value; and barriers to cultural understanding. Includes lecture and field experience.
## COURSE DESCRIPTIONS

### UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 3122</td>
<td>Learning and the Developing Child</td>
<td>3</td>
<td>PR: General psychology and admission to College of Education. Pre-adolescent child growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of classroom.</td>
</tr>
<tr>
<td>EDF 3132</td>
<td>Child and Adolescent Development</td>
<td>3</td>
<td>PR: Upper level standing. Social, economic and educational settings. Includes the needs of English Language Learners and students with varying abilities.</td>
</tr>
<tr>
<td>EDF 3214</td>
<td>Human Development And Learning</td>
<td>3</td>
<td>PR: General psychology and admission to College of Education. Application of respondent and operant learning principles to classroom learning, teaching models for different instructional goals, analysis of teacher behavior, micro-teaching.</td>
</tr>
<tr>
<td>EDF 3228</td>
<td>Human Behavior and Environmental Selection 6A MW (3)</td>
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<tr>
<td>EDF 3514</td>
<td>History of Education in the United States HP MW CASB HHCP (3)</td>
<td></td>
<td>PR: Upper-division standing. History of childhood, education, and schooling in the U.S. from early European and African contact to the present.</td>
</tr>
<tr>
<td>EDF 3604</td>
<td>Schools and Society 6A MW WRIN (3)</td>
<td></td>
<td>PR: Upper level standing. Social, economic and political context within which schools function and the values which provide direction for our schools.</td>
</tr>
<tr>
<td>EDF 4124</td>
<td>Child Growth and Learning</td>
<td>3</td>
<td>PR: General psychology and admission to College of Education. Adolescent growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of the classroom.</td>
</tr>
<tr>
<td>EDF 4131</td>
<td>Learning And The Developing Adolescent (3)</td>
<td></td>
<td>PR: General psychology and admission to College of Education. Adolescent growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of the classroom.</td>
</tr>
<tr>
<td>EDF 4430</td>
<td>Measurement For Teachers (3)</td>
<td></td>
<td>PR: Upper level standing. Concepts and skills related to designing and developing classroom tests; evaluating tests, instruction, and student progress; and communicating student achievement. Including application of performance assessment techniques and computer applications for measuring and assessing pupil progress.</td>
</tr>
<tr>
<td>EDF 4440</td>
<td>Measurement Concepts and Assessment of All Students (4)</td>
<td></td>
<td>PR: BXE Majors only. Combines diverse methods of measurement and assessment strategies for analyzing student performance including English Language Learners and students with exceptionalities.</td>
</tr>
<tr>
<td>EDF 4490</td>
<td>Studies in Research Design (3)</td>
<td></td>
<td>PR: DPR. S/U only. Specialized independent study determined by the student's needs and interests.</td>
</tr>
<tr>
<td>EDF 4905</td>
<td>Independent Study: Educational Foundations (1-4)</td>
<td></td>
<td>PR: Upper level standing. Social, economic and educational settings. Includes the needs of English Language Learners and students with varying abilities.</td>
</tr>
<tr>
<td>EDF 4909</td>
<td>Directed Study: Educational Foundations (1-3)</td>
<td></td>
<td>PR: Upper level standing. Social, economic and educational settings. Includes the needs of English Language Learners and students with varying abilities.</td>
</tr>
<tr>
<td>EDF 5607</td>
<td>Trends in Education Politics (3)</td>
<td></td>
<td>PR: Senior Standing. Offered only as a scheduled class. To extend competency in teaching field.</td>
</tr>
<tr>
<td>EDG 2701</td>
<td>Teaching Diverse Populations and Field Experience (3)</td>
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<tr>
<td>EDG 3943</td>
<td>Integrated Clinical Experience Grades K-5 (3)</td>
<td></td>
<td>PR: Knowledge acquired in the classroom. Includes placements for elementary and exceptional student education.</td>
</tr>
<tr>
<td>EDG 4012</td>
<td>Standards Based Education (1)</td>
<td></td>
<td>PR: FLE 4317 for undergraduate, FLE 5345 for graduate students. This course is designed to introduce students to standards-based education, linking program outcomes for student learning with the relevant state and national educational standards. The course is restricted to majors and is not repeatable for credit.</td>
</tr>
<tr>
<td>EDG 4444</td>
<td>Instructional Design and Classroom Management (3)</td>
<td></td>
<td>PR: Experience 5 (3) ED EDC</td>
</tr>
<tr>
<td>EDG 4445</td>
<td>Instructional Design and Classroom Management (3)</td>
<td></td>
<td>PR: Experience 5 (3) ED EDC</td>
</tr>
<tr>
<td>EDG 4620</td>
<td>Curriculum and Instruction (3)</td>
<td></td>
<td>PR: Experience 5 (3) ED EDC</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

 UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG

EDG 4909 Directed Studies (1-4) ED EDC
PR: Senior standing. Offered only as a scheduled class. Department permit required. To extend competency in teaching field.

EDG 4934 Final Intern Seminar (1) EP EDU
PR: Achieve passing scores on the GKT. CR: EDG 4944. The Seminar provides a ongoing continuous improvement activities throughout the full time student teaching experience. It also provides opportunities for the candidates to examine their experiences in their student teaching classroom settings.

EDG 4944 Integrated Final Internship (11) EP EDU
PR: BXE Majors only. CR: EDG 4934 Internship provides a full-time general education and an ESE classroom experience for candidates to integrate the theoretical knowledge from university course work and previous field experiences to master state and university standards.

EDM 3403 Middle Level Education (3) ED EDI
PR: Admission to the College of Education and Middle School Science Education Program or the Middle School Mathematics Education Program or permission of instructor. Middle level teacher candidates will learn the tenets of middle level education for today's young adolescent learner, with an emphasis on the developmental needs of young adolescent learners and the latest trends and issues in middle level education.

EDM 3620 Teaching the Young Adolescent Learner (3) ED EDI
PR: Admission to the College of Education and Middle School Science or Math Program or permission of the instructor. Middle level teacher candidates will learn about the links between the developmental needs of young adolescents, learning theories, middle level curriculum, middle level instructional strategies, ethical behavior and professional competence.

EDP 3271 Child Development within a School Context (1) ED EDF
PR: Acceptance into the Elementary Education Program or the Special Education Program in the College of Education. An introductory course designed to acquaint students with cognitive developmental theories and research that can be applied within a school context. Emphasis on the elementary school years. Restricted to Elementary or Special Education major.

EDP 3272 Learning within a School Context (1) ED EDF
PR: Acceptance into the Elementary Education Program or the Special Education Program in the College of Education. An introductory course designed to acquaint students with brain development and learning that can be applied within a school context. Emphasis on the elementary school years. Restricted to Elementary or Special Education majors.

EDP 4275 Enhancing Children's Learning and Development within a School Context (1) ED EDF
PR: Acceptance into the Elementary Education Program or the Special Education Program in the College of Education. A course that helps students to design instruction while considering individual differences & theories and research in child development and learning. Emphasis on the Elementary School years. Restricted to elementary or Special Education majors.

EEC 2000 Introduction to Early Childhood Education (3) ED EDU
An overview of early childhood education with emphasis on its historical development, current theories, and practices.

EEC 4008 Literature in Early Childhood Education 6A LW (3) ED EDU
Jr./Sr. Standing. Emphasis is placed on developing knowledge of literature for younger children (0-8 yrs.) and methodologies and strategies for utilizing literature to teach literacy in content areas of the curriculum.

EEC 4203 Programs for Young Children (3) ED EDU
PR: Admission to College of Education. Early Childhood majors only. Develops students' understanding of historical and social foundations of early childhood education, establishing professional beliefs regarding teaching young children, and developing an appropriate learning environment.

EEC 4211 Science for Young Children (3) ED EDU
PR: Admission to College of Education. EDF 4111. Early Childhood majors only. The purpose of this course is for pre-service teachers to apply research-based learning theories to plan and teach science effectively in the Early Childhood classroom. Enrollment is restricted to majors.

EEC 4212 Integrated Curriculum: Social Sciences/Humanities & Art (3) ED EDU
PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Develops an understanding of appropriate curriculum experiences in social science, humanities, and arts for kindergarten and primary grades with an emphasis on integrated experiences, and sociological influences such as culture, ethnicity, language and gender impact understandings, values, and learning.

EEC 4303 Creative and Affective Experiences for Young Children (3) ED EDU
PR: Admission to College of Education. Early Childhood majors only. Develops students' understandings of young children's creative expression through art, music, movement, play and drama. Emphasizes how to plan, implement, and evaluate appropriate learning experiences as well as selection of appropriate instructional materials.

EEC 4307 Cognitive Experiences for Young Children (3) ED EDU
PR: Admission to College of Education, EDF 4111.
Early Childhood majors only. Emphasizes theoretical and practical aspects of cognitive development for children ages 3 through 6 with focus on planning integrated experiences and content in science, mathematics, and social sciences.

EEC 4321 Mathematics for Young Children (3) ED EDU
The purpose of this course is for pre-service teachers in the Early Childhood Program to apply research-based learning theories to plan and teach math effectively in the Early Childhood classroom.

EEC 4408 Child, Family & Teacher Relations (3) ED EDU
PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Focuses on developing an understanding of traditional and non-traditional families, structural and life style variations and parenting in diverse cultures and at-risk families. Implications from these understandings will guide development of a parent involvement plan that includes effective ways to communicate with parents, conference with parents, and plan parent meetings and home visits.

EEC 4604 Classroom Management and Guidance of Young Children (3) ED EDU
PR: Admission to the Early Childhood program in the Department of Childhood Education and Literacy Studies. CR: LAE 4414, EEC 4408, RED 4310. This course for early childhood education majors explores the current knowledge of guidance procedures and techniques for managing classrooms for children ages 3 to 8 years old.

EEC 4706 Language and Emerging Literacy (3) ED EDU
PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Provides knowledge of language development and emerging literacy for typical and atypical development in children from birth to third grade, including ESOL children.

EEC 4905 Independent Study: Early Childhood Education (1-4) ED EDU
PR: S/U only. Early Childhood majors only. Specialized independent study determined by the student's needs and interests.

EEC 4909 Directed Study: Early Childhood Education (1-3) ED EDU
PR: Senior standing. To extend knowledge in teaching field.

EEC 4936 Senior Seminar in Early Childhood Education CPST (3) ED EDU
PR: Admission to the Early Childhood ED Program. Senior standing; CR: EEC 4940. This course focuses on helping the student synthesize university coursework and experiences in a full-time Pre-K and primary teaching placement. Emphasis is placed on planning and implementing developmentally appropriate teaching-learning experiences.

EEC 4940 Internship: Early Childhood (10) ED EDU
CR: EEC 4936. S/U only. Teacher candidate is required to demonstrate professional competencies during one semester of full-day internship in a public or private elementary school.

EEC 4941 Field Experience I (3) ED EDU
PR: Admission to College of Education. Early Childhood majors only. Field placement with three and four year olds where teacher candidates have opportunities to apply knowledge and skills in authentic situations and become objective observers of young children's development. Weekly seminars are conducted in conjunction with the field experience which provide teacher candidates an opportunity for reflection on their understandings.

EEC 4942 Field Experience II (3) ED EDU
PR: Admission to College of Education, Early Childhood majors only. Field placement in kindergarten or primary grade where teacher candidates have opportunities to apply knowledge and skills in authentic situations. Emphasis on developing deeper understanding of children's development and implications for development of a parent involvement plan.

EEC 4943 Field Experience III (3) ED EDU
PR: Admission to College of Education, Early Childhood majors only. Field placement in kindergarten or primary grade where teacher candidates have opportunities to apply knowledge and skills in authentic situations. Focus on developing deeper understanding of growth and development and relationship to curriculum planning with an emphasis on self-evaluation of knowledge, skills, and dispositions essential for teaching.

EEE 3302 Electronics I (3) EN EGE
PR: EGN 3373 with a minimum grade of B. A course in the physical principles of electronic devices with an emphasis on semiconductor electronics. Includes the analysis and design of amplifiers and switching circuits.

EEE 3394 Electronic Materials (3) EN EGE
PR: CHM 2045, PHY 2049. This course provides electrical engineering students with a background in material science and quantum physics as these apply to electrical/electronic material properties.

EEE 4301 Electronics II (3) EN EGE
PR: EEE 3302. Provides further study in electronic circuits. Includes feedback and frequency response techniques in amplifier design.

EEE 4305 Communications Electronics (3) EN EGE
PR: EEE 4301 Provides the basic principles of RF communications circuits including oscillators, mixers, high frequency amplifiers, etc. Requires the design and implementation of a short range communications link including a transmitter and a superheterodyne receiver.

EEE 4351C Semiconductor Devices (3) EN EGE
PR: EEE 3394. An introduction to the fundamentals of semiconductor materials and semiconductor device operation.
EEL 5344C Digital CMOS/VLSI Design (3) EN EGE
PR: EEL 4705 or GS. Design, layout, simulation, and test of custom digital CMOS/VLSI chips, using a CMOS cell library and state-of-the-art CAD tools. Digital CMOS static and dynamic gates, flip flops, CMOS array structures commonly used in digital systems. Top down design example of a bit slice processor.

EEE 5357 Analog CMOS/VLSI Design (3) EN EGE

EEE 5382 Physical Basis Of Microelectronics (3) EN EGE
PR: EEL 4471 or GS. Quantum mechanics with emphasis on electronic properties in atoms, molecules, and crystals; quantum statistics; energy band theory; crystal structures; defect chemistry; semiconductor properties.

EEL 2161 Electrical Engineering Computer Methods (3) EN EGE
Use of computers to perform analysis, simulation, and design of Electrical Engineering systems. Use of computer systems, including Internet resources. Use of analytical software. Computer programming in C++ for the solution of Electrical Engineering problems.

EEL 3100 Network Analysis and Design (3) EN EGE
PR: EGN 3420 with a minimum grade of C and EGN 3374 with a minimum grade of B. A third course in linear circuit analysis and design. Transient and steady-state responses of passive RLC networks to various functions.

EEL 3115L Network Analysis and Design Laboratory I (1) EN EGE
PR: EGN 3373 with a minimum grade of B. Basic circuit theory applications; computer-aided design tools, electrical measurement techniques.

EEL 3116L Network Analysis and Design Laboratory II (1) EN EGE
PR: EEL 3115L and EEE 3302. This laboratory is designed to introduce electrical engineering students to the design, building and testing of active electronic networks. Computer Aided Design tools and computer data acquisition strategies are examined in greater detail.

EEL 4030 Electrical Systems Environments (3) EN EGE
PR: MAP 2302 and PHY 2049 or CC. Dynamics, vibration, thermodynamics, and heat transfer in electrical, electronic, and electromechanical systems and their environments.

EEL 4102 Linear Systems Analysis (3) EN EGE
PR: EGN 3420 with a minimum grade of C and EGN 3374 with a minimum grade of B. Provides further study in the analysis of linear networks and systems. Includes time and frequency domain points of view. Laplace, Fourier and superposition integrals.

EEL 4243 Switching Power Supply Design (3) EN EGE
PR: EEE 4301 Provides the basic principles of switching power supply circuits: magnetic circuits, power semiconductors, Buck, Boost, and Flyback configurations, dc to dc converters, dc to ac inverters. Requires the design and construction of a switching power supply.

EEL 4420 RF & Microwave Measurements (2-3) EN EGE
PR: EEL 4423L or CI. This course introduces students to the theory and applications of modern radio frequency and microwave measurements. Topics to be included are network analyzer, spectrum analyzer, noise, power, and non-linear distortion measurements. Modern trends also treated are the use of on-wafer measurements for transistor characterization and the evaluation of monolithic microwave integrated circuits.

EEL 4421 RF/Microwave Circuits I (3) EN EGE
PR: EEL 3100, EEL 4471. Introduction to passive microwave circuit design. Investigate the characteristics of transmission lines used in modern microwave systems, the tools used for analysis, and some common circuit topologies for matching, filtering and power distribution. Part one of a two-part sequence. EE majors only. Not available on an S/U basis.

EEL 4422 RF/Microwave Circuits II (3) EN EGE
PR: EEL 4421. Introduction to active RF/Microwave circuit design. Investigate the characteristics of amplifiers and oscillators used in modern microwave systems, the tools used for analysis, and some common circuit topologies for biasing and matching. Substantial coverage of stability analysis, constant gain methods and noise figure. Part two of a two-part sequence. EE majors only. Not available on an S/U basis.

EEL 4423L Wireless Circuits & Systems Design Laboratory (2) EN EGE
PR: EEL 4471. An extensive hands-on introduction to wireless radio frequency and microwave circuits and systems, involving modern measurements, fabrication and computer-aided design experiences at both component and sub-system levels. Not available on an S/U basis.

EEL 4471 Electromagnetics MW (3) EN EGE
PR: MAP 2302 or EGN 3433, PHY 2049, PHY 2049L and EGN 3373 with a minimum grade of B. Electromagnetic field theory, including static and dynamic electromagnetic fields; applications; environmental effects (effects of radiation, magnetic fields).

EEL 4512C Introduction to Communication Systems (3) EN EGE
PR: EEL 3100. Provides an introduction to the fundamental principles and techniques of analog
### COURSE DESCRIPTIONS

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 4567</td>
<td>Electro-Optics</td>
<td>(3)</td>
<td>EN EGE</td>
</tr>
<tr>
<td>PR: EEL 3115L, EEL 3116L, EEL 4471. An introduction to the field of electro-optics, including visible and infra-red sources and detectors, radiometry, optical and electronic components, and fiber optics.</td>
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</tr>
<tr>
<td>EEL 4567L</td>
<td>Linear Control Systems</td>
<td>(3)</td>
<td>EN EGE</td>
</tr>
<tr>
<td>EEL 4782L</td>
<td>Information Networks Laboratory</td>
<td>(1)</td>
<td>EN EGE</td>
</tr>
<tr>
<td>PR: EEL 4705. Develop designs and demonstrate logic concepts. Schematic capture for design implementation, simulation and design verification.</td>
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<tr>
<td>EEL 4705L</td>
<td>Logic Design</td>
<td>(3)</td>
<td>EN EGE</td>
</tr>
<tr>
<td>EEL 4782</td>
<td>Computer Information Networks for</td>
<td>(3)</td>
<td>AS EIT</td>
</tr>
<tr>
<td>Information Technology</td>
<td><strong>EN EGE</strong></td>
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<tr>
<td>PR: EEL 4705. The course covers concepts of computer networks. Physical and logical structures are presented. Physical media, circuit switching, data flow, high-level protocols, and the ISO model are discussed. Bus, ring, star, and wireless topologies are presented.</td>
<td></td>
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<tr>
<td>EEL 4782L</td>
<td>Information Networks Laboratory for</td>
<td>(1)</td>
<td>EN EGE</td>
</tr>
<tr>
<td>Information Technology</td>
<td><strong>EN EGE</strong></td>
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<tr>
<td>PR: COP 4610 or CI. The lab section of this course will allow students to apply hardware and software concepts discussed in the lecture portion of the class. Special isolated networking labs provide both software and hardware tools for student experimentation.</td>
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<tr>
<td>EEL 4854</td>
<td>Data Structures and Algorithms for</td>
<td>(3)</td>
<td>AS EIT</td>
</tr>
<tr>
<td>Information Technology</td>
<td><strong>EN EGE</strong></td>
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</tr>
<tr>
<td>PR: COP 3515 or CI. Representing data for manipulation by the computer is studied. Design and analysis of well-known data structures and algorithms to manipulate them are studied. Program efficiency, clarity and speed are considered in various structures and algorithms.</td>
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<tr>
<td>EEL 4905</td>
<td>Independent Study</td>
<td>(1-5)</td>
<td>EN EGE</td>
</tr>
<tr>
<td>PR: CI. S/U only. Specialized independent study determined by the students' needs and interests.</td>
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<tr>
<td>EEL 4906</td>
<td>Professional Issues and Engineering</td>
<td>(3)</td>
<td>EN EGE</td>
</tr>
<tr>
<td>Design MW</td>
<td><strong>EN EGE</strong></td>
<td></td>
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</tr>
<tr>
<td>CR: EEE 4301, EEL 4512C, EEL 4657, EEL 4744. An introduction of engineering design with applications specific to practical engineering problems. Included are discussion of real-world issues as economics, safety, ethics and the environment.</td>
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<tr>
<td>EEL 4914</td>
<td>Senior Project Design CPST</td>
<td>(3)</td>
<td>EN EGE</td>
</tr>
<tr>
<td>PR: EEL 4906 and Senior Standing. CI. Students apply the knowledge acquired in the classroom to design a system which meets a predetermined set of specifications. Students work individually or in small groups with a faculty member (project director) in their area of interest. (Majors only.)</td>
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<tr>
<td>EEL 4935</td>
<td>Special Electrical Engineering Topics I</td>
<td>(1-4)</td>
<td>EN EGE</td>
</tr>
<tr>
<td>EEL 4936</td>
<td>Special Electrical Engineering Topics II</td>
<td>(1-4)</td>
<td>EN EGE</td>
</tr>
<tr>
<td>EEL 4937</td>
<td>Special Electrical Engineering Topics III</td>
<td>(1-4)</td>
<td>EN EGE</td>
</tr>
<tr>
<td>EEL 5250</td>
<td>Power System Analysis</td>
<td>(3)</td>
<td>EN EGE</td>
</tr>
<tr>
<td>PR: EGN 3375. Analysis and design technique for AC power systems.</td>
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<tr>
<td>EEL 5462</td>
<td>Antenna Theory</td>
<td>(3)</td>
<td>EN EGE</td>
</tr>
<tr>
<td>PR: EEL 4471 or GS. Antenna theory beginning with fundamental parameter definitions and continuing with mathematical concepts, elemental antennas and arrays.</td>
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<tr>
<td>EEL 5594L</td>
<td>Wireless Circuits and Systems</td>
<td>(2)</td>
<td>EN EGE</td>
</tr>
<tr>
<td>Laboratory</td>
<td><strong>EN EGE</strong></td>
<td></td>
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<tr>
<td>PR: EEL 4471. This class will provide introductory tutorial learning, plus hands-on experience in analysis, design and measurement in the field of wireless communications.</td>
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<tr>
<td>EEL 5771</td>
<td>Introduction to Computer Graphics I</td>
<td>(3)</td>
<td>EN ESB</td>
</tr>
<tr>
<td><strong>EN EGE</strong></td>
<td></td>
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<tr>
<td>PR: COP 4530. An introduction to the evolution of computer graphics including point-plotting, line drawing, two-dimensional transformations and graphics software packages.</td>
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<tr>
<td>EEL 5935</td>
<td>Special Electrical Engineering Topics I</td>
<td>(1-3)</td>
<td>EN EGE</td>
</tr>
<tr>
<td>EEL 5936</td>
<td>Special Electrical Engineering Topics II</td>
<td>(1-3)</td>
<td>EN EGE</td>
</tr>
<tr>
<td>EEL 5937</td>
<td>Special Electrical Engineering Topics III</td>
<td>(1-3)</td>
<td>EN EGE</td>
</tr>
</tbody>
</table>
### COURSE DESCRIPTIONS

**EEX 3751 Enhancing Family Involvement in Education** (2) EP EDS
- This course is designed for pre-service teachers to examine the development of partnerships with families of students with disabilities and their communities to address the educational needs of all students.

**EEX 4012 Foundations of Special Education** (3) ED EDS
- PR: DPR. Characteristics and needs of children who have learning disabilities, emotional disabilities, hearing impairments, mental retardation, physical handicaps, speech impairments, visual limitations, and who are gifted and talented.

**EEX 4054 Perspectives on Learning and Behavioral Differences** (3) ED EDS
- PR: EEX 4012. The purpose of this course is to introduce students to the historical and theoretical perspectives on educating students with learning and behavioral differences, develop a critical understanding of current practices in service delivery systems, and examine professional issues and trends that impact the future of the field.

**EEX 4070 Integrating Exceptional Students in the Regular Classroom** (2-3) ED EDS
- No credit for department majors.

**EEX 4202 Context and Foundations** (7) ED EDS
- PR: Admission to the College of Education Bachelor's program. CR: EEX 4942. This course is restricted to majors and forms the foundation for understanding the context of schools including curriculum, characteristics of students with disabilities, the nature of special education, and the role of the special education teacher.

**EEX 4221 Educational Assessment of Exceptional Students** (3) ED EDS
- PR: EDF 3214, EDF 4430 and EEX 4012. CR: EEX 4941 and EEX 4894. DPR. Introduction to assessment of exceptional students through formal and informal techniques. Emphasis placed on the interpretation of information for educational programming and individualization of instruction.

**EEX 4240 Beginning to Teach** (6) ED EDS
- PR: EEX 4202, EEX 4942. CR: EEX 4942. This course is second in a sequence that focuses on Beginning to Teach in Special Education, allowing teacher candidates to use their understandings think critically and to solve problems.

**EEX 4241 Creating Effective Learning Environments** (3) ED EDS
- PR: EEX 4240, EEX 4942. CR: EEX 4942. This course is third in a sequence for majors and focuses on Creating Effective Learning Environments in Special Education allowing teacher candidates to apply their understandings in a variety of school contexts with a small group of students.

**EEX 4242 Enhancing Expertise in Teaching and Instructional Decision Making** (5) ED EDS
- PR: EEX 4241, EEX 4942. CR: EEX 4942. This course is fourth in sequence for majors and focuses on Enhancing Expertise in Teaching and Instructional Decision-Making.

**EEX 4243 Education of Exceptional Adolescents and Adults** (3) ED EDS
- PR: EEX 4012 or equivalent or DPR. Procedures for implementing educational programs for exceptional adolescents and adults. Topics include service delivery, curriculum, academic remediation, advocacy, utilization of ancillary services, alternative programs and community resources.

**EEX 4244 Becoming a Special Education Teacher** (3) ED EDS
- PR: EEX 4242, EEX 4942. CR: EEX 4944. This course is designed to allow teacher candidates to demonstrate mastery of instructional planning, implementation of instruction, and data-based instructional decision-making during their final internship.

**EEX 4604 Behavior Management for Special Needs and At-Risk Students** (3) ED EDS
- PR: EEX 4012. CR: EEX 4941, ELD 4941, or EMR 4941. Techniques to prevent, analyze, and manage challenging and disruptive classroom behavior as well as teaching social skills.

**EEX 4742 Narrative Perspectives on Exceptionality: Cultural and Ethical Issues** (3) ED EDS
- PR: BXE majors only. This course is designed to enhance the use of technology for students with profound and severe exceptionalities as well as for the general classroom.

**EEX 4764 Instructional and Adaptive Technologies for Exceptionalities** (3) EP EDS
- PR: BXE majors only. This course is designed to offer students a meaningful way to interpret and understand exceptionalities.

**EEX 4880 Integrated Clinical Experience: ESE Secondary 6-12** (2-3) EP EDS
- An integrated clinical experience designed to provide pre-service teachers with opportunities to work with students in grades 6-12, for reading endorsement and certification in ESE K-12. Candidates will be in their schools two full days per week.

**EEX 4894 Clinical Teaching in Special Education** (3) ED EDS
- PR: EEX 4012, DPR. CR: EEX 4941. Effective teaching principles, instructional management procedures, and specialized teaching techniques for exceptional students.

**EEX 4905 Independent Study: Exceptional Student Education** (1-3) ED EDS
- PR: DPR. S/U only. Specialized independent study determined by the student's needs and interests.

**EEX 4909 Directed Study: Exceptional Student Education** (1-3) ED EDS
- PR: Senior standing. DPR. To extend competency in teaching field.

**EEX 4936 Senior Seminar in Exceptional Student Education** (1) ED EDS
- PR: Senior standing; CR: EEX 4940. Required
concurrently with internship. Synthesis of teacher candidate's courses in complete college program.

EEX 4940 Internship: Exceptional Student Education (1-12) ED EDS  
CR: EEX 4936. S/U only. One full semester of internship in an accredited public or private school.

EEX 4941 Practicum in Exceptional Student Education (1-4) ED EDS  
CR: Sem I: EEX 4012; Sem II: EEX 4604; Sem III: EEX 4221 and EEX 4894. Designed to provide teacher candidates with carefully planned and supervised practical experiences with exceptional students in a variety of settings. Candidates demonstrate the ability to apply concepts, theories and research. Repeatable up to six credit hours.

EEX 4942 Practicum in Exceptional Teacher Candidate Education (1-4) ED EDS  
PR: EEX 4202, EEX 4942, EEX 4240, EEX 4241. Each practicum is linked to a specific course and provides opportunities for teacher candidates to apply what they are learning in the field. Practicum is restricted to majors.

EEX 4944 Final Internship (1-12) ED EDS  
PR: EEX 4942. CR: 4244.

EEX 5705 Seminar in Preschool Handicapped (2) ED EDS  
Intended to familiarize the education student with the wide range of needs and services of the preschool children with disabilities and their families and how they coordinate with educational services.

EEX 5752 Working With Families: A Pluralistic Perspective (3) ED EDS  
PR: Introductory course in special education, GS. The impact of the socio-cultural environment on the education of at-risk children and children with disabilities; family systems theory, principles of multi-cultural education, strategies for working effectively with families of school-age children, diverse cultures and family structures represented in school populations today.

EGI 4941 Undergraduate Supervised Practicum in Gifted Student Education (1-6) ED EDS  
Organized, supervised experiences with gifted children. Specific experiences may be either a combination of observation and assistance with gifted children or individualized projects.

EGI 5051 Nature and Needs of the Gifted (3) ED EDS  
This survey course examines the characteristics and educational needs of children and youth who are gifted, including those from special populations. Emphasis is on giftedness as defined historically, nationally and locally. The course also explores changing views of intelligence and talent development related to policy and practice in gifted education as well as the processes of identification and programming.

EGI 5307 Theory and Development of Creativity (3) ED EDS  
Exploration of the concept of creativity, its factors, measurement, and application to education. Opportunities are given to work with children in a laboratory setting and to prepare materials to be used with small groups of children.

EGN 2031 History of Technology HP (3) EN EGB  
Covers the evolution of technology and its influence on society from pre-historic man to the modern day. Topics include: seven technological ages of man, methods of producing power, materials, transportation, communication and calculation, and technology and society.

EGN 2080 Light and the Arts: A Quantitative Approach FA (3) EN EGB  

EGN 2081 Circuit Mathematics and Physics (2) EN EGB  
Remedial work on the mathematical and physical concepts that are necessary for EGN 3373. Differentiation and integration, complex numbers, phasors, vectors, the physical laws for resistors, capacitors, and inductors.

EGN 2082 History of Electrotechnology HP (3) EN EGB  
Highlights of the history of electrotechnology and its relation to the development of civilization. The contributions of Volta, Faraday, Morse, Bell, Hertz, Marconi, Franklin, etc. in the context of the development of western civilization. The impact of communications, electronics and computers in the twenty-first century.

EGN 3000 Foundations of Engineering (0-3) EN EGB  
Introduction to the USF College of Engineering disciplines and the engineering profession. Course will provide you with knowledge of resources to help you succeed. Course topics include academic policies and procedures, study skills, and career planning.

EGN 3000L Foundations of Engineering Lab (1-3) EN EGB  
PR: MAC 1147 with a grade of C or better STI2 650 or EAC2 29 or AP66 3 or AP68 3 or AP69. CR: 3311. Introduction to engineering and its disciplines incorporating examples of tools and techniques used in design and presentation. Laboratory exercises will include computer tools, engineering design, team projects, and oral and written communication skills.

EGN 3311 Statics (3) EN EGB  

EGN 3321 Dynamics (3) EN EGB  
PR: EGN 3311. Dynamics of discrete particles; kinematics and kinetics for rigid bodies. Lec.

EGN 3331 Mechanics of Materials (3) EN EGB  
PR: EGN 3311, EGN 4427. CP: CGN 4933 Stress,
strain, Hooke's Law: torsion, beam, column analysis; combined stresses; inelastic effects, limit design. Lec.

EGN 3331L Mechanics of Materials Laboratory (1) EN EGB

EGN 3343 Thermodynamics I (3) EN EGB
PR: PHY 2048, PHY 2049, MAC 2283 or MAC 2313, all with a grade of C or better (not C-). Axiomatic introduction to thermodynamic concepts of energy, entropy, work and heat. Properties of ideal and real substances. Applications: power production and refrigeration, phase equilibria.

EGN 3353 Basic Fluid Mechanics (3) EN EGB

EGN 3365 Materials Engineering I (3) EN EGB
PR: CHM 2045; CR: EGN 3311. Structure and property relationships in engineering materials, i.e., metal, ceramic and polymer systems. Environmental effects are also treated.

EGN 3373 Introduction to Electrical Systems I (3) EN EGB

EGN 3374 Introduction to Electrical Systems II (3) EN EGB

EGN 3375 Electromechanical Systems (3) EN EGB
PR: EGN 3373 with a minimum grade of B. Analysis of electromechanical device performance: transformers, transducers, DC motors and generators, AC motors and alternators.

EGN 3420 Engineering Analysis (3) EN EGB
PR: MAC 2282. Introduction to aspects of matrix algebra and complex algebra which are essential in engineering: simultaneous equations, connection matrices, basic eigenvalue theory, the complex exponential.

EGN 3433 Modeling and Analysis of Engineering Systems (3) EN EGB
PR: MAC 2283, PHY 2049. Dynamic analysis of electrical, mechanical, hydraulic and thermal systems; Laplace transforms; numerical methods; use of computers in dynamic systems; analytical solution to first and second order ODEs. Restricted to majors.

EGN 3443 Probability and Statistics for Engineers (3) EN EGB
PR: MAC 2282. An introduction to the basic concepts of statistical analysis with special emphasis on engineering applications.

EGN 3615 Engineering Economics with Social and Global Implications SS CASB (3) EN EGB
Presents basic economic models used to evaluate engineering activities and an understanding of the social and ethical implications of financial decisions in a multicultural environment through lectures, case studies and current readings.

EGN 3835 Globalization and Technology SS CAGC HHCP (3) EN EGB
In this course the student will learn to apply financial analyses to engineering projects. In addition the student will learn the effects (ramifications) of the changing global economy. He/she will apply the tools to business and personal situations.

EGN 3940 Professional Engineering Internship (0) EN EGB
Professional or interdisciplinary work period in engineering or career-related field. Enrollment limited to one semester and/or one summer per academic year. Offered on a S/U basis only. Restricted to engineering majors.

EGN 4366 Materials Engineering II (3) EN EGB
PR: EGN 3365. Applications and structure property relationships of commonly used engineering materials. Steel, nonferrous alloys and their welding, heat treatment and processing. Introduction to ceramic and polymeric materials.

EGN 4427 Numerical & Computer Tools I in Civil & Env Eng (3) EN EGB
PR: MAC 2281, PHY 2048 EXCEL spreadsheet operations, computer basics, computer programming operations, flow charts, developing simple computer programs, vector and matrix algebra, equation solving techniques.

EGN 4450 Introduction to Linear Systems (2) EN EGB
PR: MAC 2282. Study and application of matrix algebra, differential equations and calculus of finite differences.

EGN 4454 Numerical & Computer Tools II in Civil & Env Eng (3) EN EGX

EGN 4905 Independent Study (1-5) EN EGB
PR: CI. Specialized independent study determined by the students' needs and interests.

EGN 4930 Special Topics in Engineering (0-3) EN EGB
PR: CI. New technical topics of interest to engineering students.

EGN 5421 Engineering Applications for Vector Analysis (3) EN EGB
Vector methods in electromagnetism and fluid mechanics. Vector operators, line and flux integrals,
COURSE DESCRIPTIONS

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EGN 5422 Engineering Applications of Partial Differential Equations (3) EN EGB

EGN 5423 Neural Networks and Mathematics for Communication (3) EN EGB

EGN 5424 Engineering Applications of Complex Analysis (3) EN EGB
Analytic functions, conformal mapping, residue theory, Laurent series, transforms. Applications to various problems in engineering and physics.

EGS 1113 Introduction to Design Graphics (3) EN EGB
The student learns how to graphically represent technical designs using sketches, traditional drawing tools, and AutoCAD. The lab features twenty Pentium II computers running AutoCAD R14.

EIN 3241 Ergonomics I (3) AS EIT
Using the fundamentals of the design process, this course demonstrates the critical importance of ergonomic tools and underlying physical human capacities.

EIN 4142 Project Management (3) EN EGS

EIN 4242 Ergonomics II (3) AS EIT
PR: EIN 3241. This course applies the concepts of work design and measurements within the ergonomic arena to achieve work design that is ergonomically feasible and effective.

EIN 4243C Human Factors 6A (3) EN EGS
Design of man-machine systems, by taking into consideration both human and machine capabilities and limitations.

EIN 4312C Work Analysis (3) EN EGS
PR: EGN 3613C or EGN 3615, EGN 3443. Operation analysis and workspace design, work measurement, standard data, ergonomics, and labor costing.

EIN 4333 Production Control (3) EN EGS
PR: ESI 4312. Planning and control of production systems. Includes: forecasting and inventory control models, scheduling and sequencing, MRP, CPM/PERT, and resource requirements.

EIN 4352 Engineering Cost Analysis (3) EN EGS
PR: EGN 3615. This is a non-repeatable course restricted to Industrial Engineering majors. It provides students with the principles and techniques for the cost analysis, estimation and evaluation of engineering design in service and manufacturing organizations.

EIN 4364 Facilities Design and Cost Analysis (3) EN EGS
PR: EIN 4312C, EGN 3615. Principles and techniques for the design, modification, cost analysis, and evaluation of service and industrial production facilities.

EIN 4601C Automation and Robotics (3) EN EGS
PR: EIN 4621. Introduction to the practices and concepts of automation as applied to material handling, inventory storage, material transfer, industrial processes and quality control.

EIN 4621 Manufacturing Processes (3) EN EGS
PR: EGS 1113. The study of basic manufacturing processes and precision assembly. CAD/CAM including NC programming.

EIN 4891 Capstone Design MW CPST (3) EN EGS
PR: EIN 4364. Teams of students work on the design of a product/service company and performed tasks that range from product/service definition (and assessment of market needs) to production and evaluation of economic/financial feasibility. The product/service design will use existing prototype(s) that need revisions, improvements and enhancements considering design, usability, producibility/manufacturability, and delivery.

EIN 4933 Special Topics in Industrial Engineering (1-5) EN EGS
Special topics related to economic analysis, optimization, human factors, manufacturing and automation aspect of industrial systems. Repeatable up to 5 credit hours.

EIN 5174 Total Quality Management Concepts (3) EN EGS
This course will examine the methodology and procedures that companies use to improve quality and its operational benefits, including the management transformation (paradigm shift) that is evolving. Unrestricted. Nonrepeatable for credit.

EIN 5182 Principles of Engineering Management (3) EN EGS
Introduction to the fundamentals of planning, organizing and leadership as needed by engineers, scientists, and other professionals considering managerial positions.

EIN 5201 Creativity in Technology (3) EN EGS
Designed to aid engineers, and others, re-open the creativity within themselves. It is focused on the student and his/her interests in technology and innovation. Graduate students and senior undergraduates.

EIN 5275 Work Physiology and Biomechanics (3) EN EGS
PR: CC, majors only. Human physiological limitations encountered in design, analysis and evaluation of man-machine systems.

EIN 5350 Technology and Finance (3) EN EGS
A course for technical managers that focuses on how financial and economic principles are utilized to
make technical investments and manage technical enterprises.

EIN 5452 Engineering a Lean Enterprise (3) EN EGS
Engineering the Lean Enterprise introduces you to one of the most successful strategies in operations: lean manufacturing, as seen at Toyota and other companies. Lean manufacturing is a philosophy that applies both on and off the factory floor.

EIN 5510 Manufacturing Systems Analysis (3) EN EGS
PR: CC, majors only. The study of systems of manufacturing enterprises such as machine tools, robots, and materials handlers. Emphasis is on mathematical description of integrated systems and system optimization.

EMA 4003 Introduction to Materials Science (3) EN ECH
PR: ECH 4123 or Consent of Instructor. Introduction to the main families of materials and principles behind their design, selection, development, and behavior. Relationship of properties to structure and processing of materials. Not repeatable for credit. Majors and non-majors.

EMA 4324 Corrosion of Engineering Materials I (3) EN EGX
Principles of electrochemical corrosion and the representation of corrosion processes by polarization diagrams. Origin and prevention of the localized forms of corrosion and approaches to corrosion control.

EMA 5326 Corrosion Control (3) EN EGX
PR: EGN 3365. Provide understanding of corrosion fundamentals. Introduce design for corrosion detection, protection, and control. Acquire research project experience.

EME 2040 Introduction to Technology for Educators (3) ED EDI
Designed as an introduction to computer technology and its role in teaching and learning processes. Topics include educational software, ethical and social issues, hardware, interactive multimedia, models for integrating technology into instruction, productivity tools and telecommunications.

EME 5403 Computers in Education (3) ED EDI
A survey course designed to introduce practicing teachers to microcomputer technology and its function in the classroom to augment the teaching and learning processes. Objectives include the use and evaluation of educational software, classroom use of computers, instructional computing research, generic applications software (word processors, database managers, etc.), programming, disk operating systems, and microcomputer hardware.

EML 3022 Computer Aided Design and Engineering (3) EN EGR
This course is intended for developing graphics design concepts in undergraduate students. Learning engineering drawing fundamentals, design views, design and analysis of mechanical engineering power transmission components using computer aided software.

EML 3035 Programming Concepts for Mechanical Engineers (1) EN EGR
PR: MAC 2281, PHY 2048 Solution of engineering and science problems using programming language such as Visual Basic or Maple. Topics include fundamentals of programming, controlling program flow and arrays. Restricted to majors; not repeatable for credit.

EML 3041 Computational Methods (3) EN EGR
PR: MAP 2302, EML 3035. Techniques to solving engineering problems using numerical methods. Topics include roots of equations, matrix algebra, simultaneous linear equations, numerical integration and differentiation, and curve fitting.

EML 3262 Kinematics and Dynamics of Machinery (3) EN EGR
PR: EGN 3321, EML 3022. Kinematics of machines and mechanisms; position, velocity, and acceleration analysis of mechanisms; cams; gear trains; inertia forces in mechanisms; flywheels; balancing of rotating masses.

EML 3303 Mechanical Engineering Lab I (3) EN EGR

EML 3500 Mechanics of Solids (3) EN EGR
PR: EGN 3311. Stress and deflection analysis of machine parts, variable loads, endurance limits, fasteners, bearings, power transmission, code consideration of pressure and vacuum vessels, elements of design.

EML 3701 Fluid Systems (3) EN EGR
PR: EGN 3343, EGN 3321. Principles of fluid flow; piping and duct systems; fluid machinery; metering of compressible and incompressible flow; boundary layer theory; dimensional analysis; introduction to aerodynamics.

EML 4106C Thermal Systems and Economics (3) EN EGR
PR: EGN 3343. Power and refrigeration cycles; fuels and combustion; internal combustion engine cycles; co-generation; nuclear energy; methods of economic analysis.

EML 4123 Heat Transfer (3) EN EGR
PR: EML 3701, EML 3041. Conduction, convection and radiant heat transfer; thermal properties of materials; role of fluid flow in convective heat transfer; design and selection of heat exchangers.

EML 4141 Thermal Management of Electronic Systems (3) EN EGR
PR: EML 4123. Introduction to principles of thermal management for controlling heat dissipation in electronics systems. Passive & active thermal management techniques for electronic systems & components are considered with regard to
fundamental heat transfer modes.

EML 4220 Vibrations (3) EN EGR

EML 4230 Introduction to Composite Materials (3) EN EGR
PR: EML 3500 and EML 3041. The course introduces manufacturing types and applications of advanced composites. Students study micromechanical and macromechanical behavior of a lamina and analyze and design a laminated structure made of advanced composite materials.

EML 4246 Tribology (3) EN EGR
PR: EML 3500, EML 3701 and EML 4501. Introduction to friction, lubrication and wear. Contact of real surfaces, mechanics of friction, surface failures, boundary lubrication fluid properties, thin film lubrication, thick film lubrication, bearing and lubricant selection.

EML 4302 Mechanical Engineering Laboratory II (3) EN EGR
PR: EML 3303. Continuation of EML 3303 with emphasis on material and energy balances, stress analysis and vibrations. Lec.-lab. The Team-Project-Time Approach.

EML 4310 Microcontrollers (3) EN EGR
CR: EML 4312. To introduce students to microcontroller technology, and to provide them with an understanding of the concepts and principles used to interface input and output devices to microcontrollers, program microcontrollers, and to develop applications.

EML 4312 Mechanical Controls (3) EN EGR

EML 4325 Mechanical Manufacturing Processes (3) EN EGR
PR: EGN 3365. Description of mechanical material cutting, forming and fabrication methods, as used in modern industrial manufacturing processes.

EML 4326 Advanced Materials Processing (3) EN EGR
PR: EML 3500 and EML 4325. Advanced materials processing focuses on the fundamental principles of solidification, deformation, additive and subtractive processes. Integrated process modeling will lead to optimized performance through processing - structure - property relationships.

EML 4395 Motor Selection and Control (3) EN EGR
PR: ENG 3373 Standard electrical voltages; power wiring in industrial plants; NEMA motor designs and their uses; techniques for estimating motor starting times and temperature rise; motor selection, starting, and operating safety interlocks; conventional starting and control systems; programmable controllers; electrical code requirements for conductors and protective devices.

EML 4414 Power Plant Engineering (3) EN EGR
PR: EML 4106C. The study of large scale thermoelectric power conversion for utility systems. Combustion of hydrocarbon fuels, furnace, steam generated auxiliary system design. Topics include control of our emissions, design and performance of combined power facilities.

EML 4419 Propulsion I (3) EN EGR
PR: EML 3701, EML 3500 or CI. Introduction to the design of propulsion systems. Basic analysis of internal combustion, jet and rocket engines. Application to ground and air transportation. Advanced propulsion concepts. Special topics for class discussion.

EML 4421 Internal Combustion Engines (3) EN EGR
PR: EGN 3343. This course is for the application of thermodynamics, chemistry, dynamics of machinery, electronics and fluid mechanics. Topics covered are: introduction of engines, fuels and combustion, numerical modeling, ignition, fuel systems, balance of reciprocating mechanisms and emission control of exhaust pollutants.

EML 4450 Alternative & Renewable Energy (3) EN EGR
PR: EML 3500. An overview of energy conversion for electrical power generation and transportation, both conventional and sustainable. The course is aimed at mechanical engineering seniors and includes hands-on design projects.

EML 4501 Machine Design (3) EN EGR
PR: EML 3500, EML 3022. Designed to teach students to apply the principles of engineering mechanics, materials and manufacturing to the design/analysis of machine elements and mechanical systems. Emphasis is given toward good design practice as well as pitfalls that can result in a catastrophic failure.

EML 4503 Sustainable Design and Materials (3) EN EGR
PR: EML 4501. This course integrates sustainability into the design of engineered products. Topics include materials selection and function performance, design for the 4 Rs, end-of-life concerns and product life cycle assessment methods.

EML 4551 Capstone Design MW CPST (3) EN EGR
PR: EML 4501. Comprehensive design or feasibility project requiring application of previously acquired engineering knowledge; use of ANSYS, CAD AND Pro/E.
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EML 4552 Senior Mechanical Design (3) EN EGR
PR: CI. Comprehensive design or feasibility study project. In some cases may be a continuation of EML 4551.

EML 4575 Principles of Fracture Mechanics (3) EN EGR
PR: EML 3500 and MAC 2311 or equivalent. Introduction to failure and fracture of linear and nonlinear engineering materials, as well as designing against fracture in modern materials.

EML 4593 Haptics (3) EN EGR
PR: EML 3041; EML 4312. Course covers the theory and implementation of haptic interfaces and rendering, teleoperation, modeling, control and stability of feedback for robotic systems and virtual environments, and the related human haptic sensing capabilities.

EML 4601 Air Conditioning Design (3) EN EGR

EML 4702 Fluid Dynamics II (3) EN EGR
PR: EGN 3343, EGN 3321 and EML 3701. The Fluid Dynamics II course is a senior level technical elective for Mechanical Engineering Students. The goal of the course is develop an advanced understanding of fluid dynamics applied to mechanical engineering as well as to other related fields.

EML 4703 Mechanics of Compressible Fluids (3) EN EGR

EML 4905 Independent Study (1-4) EN EGR
PR: CI. Specialized independent study determined by the student's needs and interests.

EML 4930 Special Topics in Mechanical Engineering (1-4) EN EGR
PR: CC.

EMR 4011 Mental Retardation and Developmental Disabilities (3) ED EDS
PR: EEX 4012 or equivalent. This course is designed to provide students with a broad introduction to the area of mental retardation and developmental disabilities with particular emphasis on the educational aspects. This course is required by the State for certification in mental retardation.

EMR 4905 Independent Study: Mental Retardation (1-3) ED EDS
S/U. May be repeated when subjects vary. DPR. Specialized independent study determined by the student's needs and interests.

ENC 1101 Composition I 6A EC CAEC HHCP (3) AS ENG
This course helps prepare students for academic work by emphasizing expository writing, the basics of library research, and the conventions of academic discourse.

ENC 1102 Composition II 6A EC CAEC (3) AS ENG
PR: ENC 1101 (or the equivalent, i.e. passing the CLEP exam). This course emphasizes argument, research, and style. As students engage in creative and critical thinking, they learn to support assertions based on audience and purpose; students apply library research, strategies for revision, and peer response.

ENC 1130 Improving College-Level Writing (3) US RLS
This class approaches writing as a process and utilizes prewriting, drafting, revising, and editing. Through intensive reading and writing practice, the curriculum will address grammar, mechanics, punctuation, word usage, and essay structure.

ENC 2210 Technical Writing 6A (3) AS ENG
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122. Effective presentation of technical and semi-technical information. Will not count toward the English major.

ENC 3242 Technical Communication for Majors (3) AS ENG
PR: ENC 1101 & 1102 or ENC 1121 & 1122. The study of the range of possible careers for technical communicators with special emphasis on the issues that professional writers face in various workplace contexts and on the skills needed in word processing.

ENC 3246 Communication for Engineers 6A WRIN (3) AS ENG
Focuses on writing concerns of engineers. Deals with the content, organization, format, and style of specific types of engineering documents. Provides opportunity to improve oral presentations.

ENC 3249 Communication for IT Professionals 6A WRIN (3) AS ENG
PR: ENC 1101 and ENC 1102 or Honors English. CoPR: Course Restricted to Undergraduate Students Majoring in Information Technology. This course is devoted to the written and oral communication concerns of the 21st Century information technology professional. Students will be engaged individual and team development of professional and technical documents relevant to the IT field.

ENC 3250 Professional Writing 6A WRIN (3) AS ENG
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122. The course is an introduction to the techniques and types of professional writing, including correspondence and reports. It is designed to help strengthen skills of effective business and professional communication in both oral and written modes.

ENC 3310 Expository Writing 6A WRIN (3) AS ENG
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122. This is a course that teaches the techniques for writing effective prose, (excluding
ENC 3330 Rhetorical Traditions (3) AP VVA
PR: ENC 1102, with a grade of C- or better.
Examine texts from the rhetorical tradition alongside contemporary examples of rhetoric and engage questions that arise from the study of rhetoric; apply rhetoric to teaching, literary criticism, professional writing, publishing, politics, and law.

ENC 3331 Client and Civic Communication (3) AP VVA
PR: ENC 1102. This course provides the groundwork for writing in civic life and explores working definitions of key terms: civic engagement, ethics, rhetoric, writing, composing and technology.

ENC 3371 Rhetorical Theory for Technical Communication (3) AS ENG
This course provides undergraduates exposure to key rhetorical theorists and concepts, placing special emphasis on the relationships between rhetor, audience, context, and medium. This course is open to all students and is not restricted or repeatable.

ENC 3373 Rhetoric of Marginalized Communities (3) AP VVA
PR: ENC 1102. Study mainstream and marginalized communities in an interactive seminar featuring discussion, collaboration, essay writing, presentations, electronic media, and the development of a final project/portfolio negotiated between each student and instructor.

ENC 3376 Multimodal Composition (3) AP VVA
PR: ENC 1102. Compose with still and moving images, color, music, sound, and gesture. Write between modes, media, and genres of texts and events, and use traditional writing processes to create a multimodal project.

ENC 3416 New Media for Technical Communication (3) AS ENG
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122. The study and production of digital media with special emphasis on emergent and evolving applications.

ENC 3445 Introduction to the English Major (3) AP VVA
PR: ENC 1102, with a minimum grade of C- or better. This course introduces students to analytical approaches, critical readings, and forms of writing typically found within the English major.

ENC 4212 Professional & Technical Editing (3) AM ENG
PR: At least one of the following: ENC 2210, ENC 3250, ENC 3310, ENC 4260, ENC 4906, ENC 4946, ENC 4268, ENC 4311, or CI. This course helps students meet professional and technical editing challenges in the workplace. Assignments concern research, interviewing, writing, editing, and the technology needed for successful results. Unrestricted to majors, not repeatable.

ENC 4218 Visual Rhetoric for Technical Communication (3) AS ENG
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122. The study and production of visual rhetoric with special emphasis on print and digital document design and technical graphics.

ENC 4260 Advanced Technical Writing (3) AS ENG
PR: ENC 2210 or ENC 3310 or CI. Advanced Technical Writing is a course designed to develop writing skills of a high order: technical exposition; technical narration, description, and argumentation; graphics; proposals; progress reports; physical research reports; and feasibility reports.

ENC 4264 Managerial Communications (3) AM ENG
PR: Any one of the following: ENC 3250, ENC 3310, ENC 4311, ENC 4260, ENC 2210. This course is designed to strengthen written, oral, and non-verbal skills in the context of managerial communication tasks. The course presents communication skills as integral to management strategy and as vital to workplace success. Non-restricted to majors.

ENC 4268 Sr Seminar in Professional & Tech Writing (3) AM ENG
PR: Senior status and at least three of the following: ENC 2210, ENC 3250, ENC 3310, ENC 4208, ENC 4209, ENC 4212, ENC 4260, ENC 4264, ENC 4311 or CI. This course helps students consolidate learning from previous BTW courses to prepare for professional employment by performing advanced assignments guided by professional mentors and instructor. Required course, not repeatable.

ENC 4311 Advanced Composition (3) AS ENG
PR: ENC 3310 or CI. Instruction and practice in writing effective, lucid, and compelling prose, with special emphasis on style, logical argumentation, and critical thinking.

ENC 4351 Writing for Publication (3) AP VVA
PR: ENC 1102 with a grade of C- or better. Develop the knowledge and skills necessary to write & publish professional papers and become familiar with the requirements of journals in an area of specialization and to provide first-hand experience with the publication process.

ENC 4377 Advanced Rhetoric (3) AP VVA
PR: ENC 1102 with a grade of C- or better. Study rhetorical cultures and produce rhetorical performances in an interactive seminar featuring discussion, collaboration, essay writing, presentations, electronic media, and the development of a final project/portfolio.

ENC 4431 Writing and New Media (3) AP VVA
PR: ENC 1102 with a grade of C- or better. Engage social networking, interactivity, virtual communities, and the issues that emerge in the creation, consumption, distribution, and publication of digital
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ENC 4906 Professional & Technical Writing Independent (3) AM ENG
PR: At least two of the following courses: ENC 2210, ENC 3250, ENC 3310, ENC 4209, ENC 4212, ENC 4260, ENC 4264, ENC 4311 or CI. This course focuses on such individually chosen topics as communications crisis management and PR strategy through written assignments, selected readings, and in-person or online meetings. Not restricted to majors; may be repeated for credit.

ENC 4931 Selected Topics in Professional and Technical Writing (3) AS ENG
PR: ENC 3250, ENC 2210, or ENC 3310 or CI. Focus of the course will be determined by student demand and instructor interest. Topics to be covered may include legal writing, the conventions of business writing, writing in the medical fields, and writing for the social sciences. May be taken twice for credit with different topics.

ENC 4940 Professional/Technical Communications Internship (3) AS ENG
PR: At least 12 undergraduate credit hours in upper division Professional and Technical Writing classes completed by the beginning of the internship semester. Supervised work-and-learning experience in professional and technical communications under the direction of a University faculty member and an employee of a participating firm. Repeatable one time for 3 credit hours.

ENC 4946 Professional & Technical Writing Internship (3) AM ENG
PR: At least two of the following ENC courses AND instructor permission: 2210, 3250, 3310, 4906, 4212, 4264, or 4268. CR: Approved application and approved formal internship agreement. This course is a custom-designed BTW internship in which a student works with a company or organization on real-world communications assignments under the guidance of a supervisor. Restricted to majors; may not be repeated for credit.

ENG 3014 Introduction to Literary Methodology (3) AS ENG
PR: ENC 1101 and ENC 1102. This course prepares English majors and minors with the basic critical and technical skills and understanding for subsequent literary study in 3000- and 4000-level courses towards the major. Substantial writing. Required of LIT majors. Recommended during first 2 semesters of LIT major.

ENG 3113 Film as Narrative Art (3) AS ENG
This course will examine the role of narrative as it appears in national and international cinema and study different theoretical and historical perspectives of cinematic narrative and cinematic techniques and interpretation.

ENG 4013 Literary Criticism (3) AS ENG
A study of the works of major literary critics from Aristotle to the present, with emphasis on their meaning, their implied world view, and their significance for our own time and literature. Required for Literature majors. Recommended before 4000-level literature courses.

ENG 4042 Studies in Theory and Criticism (3) AP VVA
PR: ENC 1102 with a grade of C- or better. Repeatable, 2 times, 6 credits maximum. A survey or focused study of criticism and theory, including literary and rhetorical, ancient and contemporary.

ENG 4060 History of the English Language (3) AS ENG
The evolution of language from Anglo-Saxon through Middle English to Modern English. Development of the English lexicon. Changes in the pronunciation, syntactic, and semantic systems; discussion of the forms which influenced them.

ENG 4674 Film and Culture 6A MW LW CPST WRIN (3) AS ENG
PR: Junior/Senior Standing. Students will be introduced to key concepts and techniques of Film Studies, including the history of film; an examination of film genres; an overview of foreign cinema; and the study of issues of class, race, gender, and sexuality.

ENG 4906 Individual Research (1-4) AS ENG
PR: CC. Directed study in special projects.

ENG 4907 Directed Reading (3) AS ENG
PR: CC. Readings in special topics.

ENG 4934 Senior Literature Seminar (3) AM ENG
PR: ENG 4013, senior registration status. The Senior Literature Seminar will be the capstone course for literature majors, emphasizing the degree-program outcomes. Students will develop and synthesize the knowledge and skills gained in the literature major, as they will explore a specific topic, which will vary. This is a required course for English majors.

ENG 4935 Honors Seminar I (3) AS ENG
PR: Admission to English Honors Program. CR: ENG 4936. Variable topics. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.

ENG 4936 Honors Seminar II (3) AS ENG
PR: Admission to English Honors Program. CR: ENG 4935. Variable topics. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.

ENG 4940 Internship in English (1-4) AP VVA
PR: ENG majors only. Supervised field experience in a writing and/or reading oriented position relevant to the English major. Restricted to majors. Nonrepeatable.

ENG 4950 Senior Portfolio (3) AP VVA
PR: ENC 1102, with a grade of C- or better. This course provides a capstone experience for integrating the skills and knowledge acquired throughout the program of study into a portfolio of diverse texts for sharing and showcasing beyond the university community.
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ENL 3015 British Literature to 1616 (3) AS ENG
A study of the poetry and poetics of the Romantic figures, primarily of the years 1800-1900. It satisfies a historical distribution requirement for the English major, LIT, and may be taken more than once for credit.

ENL 3016 Studies in 17th and 18th Century British Literature (3) AS ENG
This is a topics course focusing on 17th and 18th century British literature. It satisfies a historical distribution requirement for the English major, LIT, and may be taken more than once for credit.

ENL 3017 Studies in 19th Century British Literature (3) AS ENG
This is a topics course focusing on British Literature primarily of the years 1800-1900. It satisfies a historical distribution requirement for the English major, LIT, and may be taken more than once for credit.

ENL 3026 Studies in Twentieth-Century Literature (3) AS ENG
This is a topics course focusing on Twentieth-Century Literature (British; American; and/or World). It satisfies a historical distribution requirement for the English major, literature track, and may be taken more than once for credit.

ENL 3230 British Literature 1616-1780 (3) AS ENG
A survey of 17th Century and Neoclassical Literature, including such figures as Donne, Herbert, Crashaw, Vaughan, Marvell, Milton, Pope, Swift, Johnson, Boswell, and Goldsmith.

ENL 3251 British Literature 1780-1900 (3) AS ENG
The poetry and poetics of the Romantic figures, with attention to the continuing importance of Romantic thinking in contemporary affairs and letters; a survey of representative figures of the Victorian and Edwardian periods, including poetry, prose, and drama.

ENL 3270 British Literature, 1900 to the Present (3) AP VVA
PR: ENC 1102, with a minimum grade of C- or better. This course surveys major movements and authors in British literature from 1900 to the present, situating literary works within historical and cultural contexts.

ENL 3273 British Literature 1900-1945 (3) AS ENG
Survey of poetry, drama, and fiction of such writers as Eliot, Yeats, Thomas, Conrad, Shaw, Joyce, Lawrence, Huxley, Woolf, Forster, Waugh, Owen, Auden, O'Casey, and others.

ENL 3331 Early Shakespeare (3) AS ENG
A study of from five to eight of Shakespeare's comedies, histories, and early tragedies, ending with <i>Hamlet</i>. Special attention to developing the student's ability to read and interpret the text.

ENL 3332 Late Shakespeare (3) AS ENG
A study of from five to eight of Shakespeare's problem plays, major tragedies, and late romances. Special attention to developing the student's ability to read and interpret the text.

ENL 3333 Shakespeare (3) AP VVA
PR: ENC 1102 with a grade of C- or better. This course studies conditions, conventions & mode of representations of the early modern stage and examines Shakespeare's uses of them. Along with analyzing plays in these contexts, students will experience interpretation through performance.

ENL 3334 Shakespeare from an Historical Perspective 6A HP CAHU HHCP (3) AS ENG
This course introduces students to at least six of Shakespeare's plays. The course will focus on artistic elements of the plays; the political, social, and intellectual milieu of the period; as well as issues of class, race, and gender. Will not count toward English major.

ENL 4122 19th Century British Novel (3) AS ENG
Study of the 19th-century British novel, including works by novelists such as Thackeray, Dickens, Eliot, Hardy, Trollope, and others. Analysis of the characteristics of the novels and their historical, social, cultural, and political contexts.

ENL 4132 British Novel: Conrad to the Present (3) AS ENG
A critical study of British fiction from 1900 to the present, with emphasis on such writers as Conrad, Lawrence, Joyce, Woolf, Huxley, Orwell, Burgess, Murdoch, Golding, and others.

ENL 4140 Introduction to Old English (3) AS ENG
This course will give students a reading knowledge of the Old English language and introduce them to its literature.

ENL 4141 Chaucer (3) AS ENG
An intensive study of <i>The Canterbury Tales</i> and major critical concerns.

ENL 4203 Advanced Studies in Shakespeare (3) AS ENG
PR: ENL 3331 or ENL 3332, or CI. Intensive study of selected plays of Shakespeare, with special attention to significant critical issues and to the Elizabethan and Jacobean cultural setting.

ENL 4301 Milton (3) AS ENG
Study of the poetry and major prose of John Milton, with special emphasis on <i>Paradise Lost</i>.

ENL 4501 Studies in Medieval and Early Modern Literature (3) AS ENG
This course will examine specific eras, genres, and authors within medieval and early modern literature.

ENL 4930 Selected Topics (3) AP VVA
PR: ENC 1102 with a grade of C- or better. Repeatable, 2 times, 6 credits maximum. This course examines a specific literary movement or genre in British literature (ie, Shakespearean genre,
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Romanticism).

ENL 5137 British Novel 1900 to the Present (3) AM ENG
This course provides advanced study of trends and influences in longer British fiction from about 1900 to the present. It traces the development of the novel form focusing on works and authors considered to have made major contributions to British fiction.

ENT 3003 Principles of Business in Entrepreneurship (3) BA MAN
Introduction to business principles in entrepreneurship for non-business and non-industrial engineering students. Provides basic foundation in entrepreneurship, finance and accounting. Helps students to understand the role of entrepreneurship in society.

ENT 3013 New Venture Creation (3) BP MAN
PR: MAN 4802, with a grade of C- or better. Focused on the application of idea generation processes. The student will be exposed to processes for effective opportunity recognition, innovation, creativity, & execution of developing a sound business prototype & pitch.

ENT 3503 Social Issues in Entrepreneurial Firms (3) BP MAN
This class focuses on various social and ethical issues impacting small business and entrepreneurial firms. Emphasis will be given to the role of sustainability not only of the small business firm but also the environments in which they operate.

ENT 3613 Creativity and Innovation in Entrepreneurial Firms (3) BP MAN
This class is designed to prepare the student in the use of creative thinking tools and a mindset equipped to explore possibilities and create options to establish a competitive advantage in an increasingly complex and uncertain environment.

ENT 4014 New Venture Formation (3) BA MAN

ENT 4214 Entrepreneurial Leadership (3) BP MAN
Focuses on entrepreneurial leaders & experiences that have lead to their success and failures. Guest entrepreneurs will present their experiences & engage in open discussion. Concepts conveyed by speakers will be expanded on by the instructor.

ENT 4244 Scalability in Entrepreneurial Firms (3) BP MAN
PR: ENT 3013 and MAN 4802, both with a grade of C- or better. Addresses the greatest challenge for a high growth firm—scalability. Scalability issues throughout the firm will be addressed including change management, culture, leadership, human resources, financial, funding, marketing, strategy and business modeling.

ENT 4424 Fundamentals of Venture Capital and Private Equity (3) BA MAN
PR: ENT 4014. Elective course for business and industrial engineering students. Integrates basic principles of venture financing through an examination of both venture capital and private equity in entrepreneurial new business creation and growth.

ENT 4901 Independent Research in Entrepreneurship (1-3) BP MAN
PR: ENT 3013 and MAN 4802, both with a grade of C- or better. This class will allow students the opportunity under faculty guidance to explore issues related to entrepreneurship not currently included in existing curricula; allow students the opportunity to pursue more detailed knowledge on an area of interest.

ENT 4943 Internship in Entrepreneurship (1-3) BP MAN
PR: ENT 3013 and MAN 4802, both with a grade of C- or better. Allow students practical experience working in a Small or Mid-Sized Firm (SME); focus on skills associated with operations within the unique environment of a small business; not allowed for credit for someone currently working full/part-time in an SME.

ENT 4945 Student Consulting in High Growth Ventures (3) BP MAN
PR: ENT 3013, ENT 4244 and MAN 4802, all with a grade of C- or better. Students will work directly as consultants to high growth potential firms in the Gazelle Lab business accelerator program. Students will analyze feasibility, environmental concerns, financial benchmarking, executive summaries, and the investor pitch.

ENV 2073 Global Warming: Science and Politics of a Contemporary Issue NS CANP (3) EN EGX
Non-technical introduction to the greenhouse effect and how human activities purportedly affect the global climate. Investigation of the relationship between science and the political process. Proposed policies to address global warming.

ENV 4001 Environmental Systems Engineering (3) EN EGX
CR: EGN 3353. An introduction to various aspects of environmental problems faced by today’s society. Topics covered are: air pollution, water pollution, noise pollution, solid waste management, ionizing radiation, disease transmission, and food protection.

ENV 4004L Environmental/Hydraulics Engineering Lab (1) EN EGX
PR: EGN 3353. CR: ENV 4001. Laboratory experience in the measuring of environmental and hydraulic parameters.

ENV 4351 Solid Waste Engineering (2) EN EGX
Introduction to the principles of integrated municipal solid waste management; waste minimization, recycle and disposal options. Design of landfill disposal systems. Course restricted to Civil and Environmental Engineering majors.

ENV 4417 Water Quality and Treatment (3) EN EGX
PR: EGN 3353 An introduction to municipal water
ENV 4552C Environmental Unit Operations and Processes (3) EN EGX
PR: ENV 4001, ENV 4417 or CI. Theory, experimental investigation, and modeling of operations and processes in engineered and natural systems. Laboratory evaluation of unit operations and processes used in water and wastewater treatment including chlorination, activated carbon adsorption, biological treatment, gas/liquid mass transfer, filtration, coagulation, flocculation, and settling. Application of experimental data to process analysis and design. Field monitoring of surface water quality; simulation of transport and transformation of pollutants in surface waters.

ENV 5103 Air Pollution Control (3) EN EGX
PR: EGN 3353. Behavior and effects of atmospheric contaminants and the principles of making measurements in the air environment. Basic concepts of meteorology and control technology are discussed. Regulatory aspects and air pollution standards are covered.

ENV 5334 Hazardous Waste Management and Remedial Action (3) EN EGX
PR: ENV 5345 and one of the following: ENV 6347, ENV 6519, ENV 6558; or CI, majors only. Undergraduate preparation in environmental engineering or an environmental science program. Introduction to hazardous waste management and remediation: RCRA regulatory concepts, definitions, aspects of hazardous waste management from within the plant to final disposal. History of hazardous waste cleanup leading to CERCLA and its amendments, site investigations; site control; those aspects of treatment that are unique to remedial action.

ENV 5345 Solid Waste Control (3) EN EGX
PR: CI. Undergraduate preparation in environmental engineering, or graduate standing in environmental engineering or an environmental science program. Introduction to solid waste management, including its definition as an umbrella for hazardous waste: regulatory concepts; waste types, quantities, and characterization; collection and recycling; facility siting; disposal; thermal treatment.

ENV 5504C Environmental Engineering Processes (3) EN EGX
PR: ENV 4001, ENV 4004L, ENV 4417 Theory, experimental investigation, and modeling of operations and processes in engineered and natural systems. Laboratory evaluation of unit operations and process used in water and wastewater treatment including chlorination, activated carbon adsorption, biological treatment, gas/liquid mass transfer, filtration, coagulation, flocculation, and settling. This course is restricted to majors, has no external laboratory section associated with the course, is not available on an S/U basis only, is not cross-listed with another department or college.

ENV 5904C Introduction to Entomology (4) AS BIN
PR: BSC 2010, BSC 2010L, BSC 211, BSC 211L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course, or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712. An introduction to general aspects of insect morphology, development, and classification. The identification of local forms will be emphasized. Fieldwork required. Lecture and Laboratory.

ENV 5505C Aquatic Entomology (4) AS BIN
PR: ENV 3004C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and CI. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Fieldwork required. Lecture and Laboratory.

EPD 5051 Advanced Theories in Motor and Physical Disabilities (3) ED EDS
PR: EEX 4012 or DPR. Biological and functional aspects of motor and physical health disabilities, including dysfunctions in central nervous system covering motor, sensory, language and psychological disorders.

EPD 5321 Educational Strategies for Physically and Multi-handicapped Students (3) ED EDS
PR: EPD 5051. Educational management of students with cerebral palsy, motor disabilities and multihandicapped conditions including rehabilitation and other community services.

ESC 4705 Geology and Development of Modern Africa MW (3) AS GLY
An in-depth look at how geology has affected the politics, history and culture of Africa. Units include the Nile and hydropolitics, deserts and climate, rifting and hominid evolution, and mining and politics.

ESE 4322 Classroom Management for Diverse School and Society (3) ED EDI
Focuses on classroom management in secondary schools including classroom climate, specific strategies to address management issues, school safety, violence, diversity, ethics, and educational law.

ESE 5342 Teaching the Adolescent Learner (3) ED EDI
Emphasis is placed on adolescent developmental and learning needs linking them to practices in the classroom appropriate to the diverse secondary education population (ESOL, special education, multicultural, at-risk, etc.) in preparation for planning responsive standards-based instruction.

ESE 5344 Classroom Management for a Diverse School and Society (3) ED EDI
This course covers practical, theoretical, philosophical and ethical aspects of school and society, the education profession, and secondary schools with particular focus on classroom management, school violence, school safety, educational law and other critical social issues.
ESI 2009 Introduction to Engineering Programming
(3) EN EGS
PR: MAC 2281 with a minimum grade of C (C- not accepted). A problem based approach to describing programming concepts using Visual Basic for Applications and MS Excel.

ESI 4221 Statistical Quality Control (3) EN EGS
PR: EGN 3443. This course will present the theory and methods of quality monitoring including process capability, control charts, acceptance sampling, quality engineering, and quality design.

ESI 4244 Design of Experiments (3) EN EGS
PR: EGN 3443. Activity forecasting models and control. Design and use of inventory control models, both designs applicable to engineering analyses. Analysis of variance and regression.

ESI 4312 Deterministic O. R. (3) EN EGS
PR: COP 2510, EGN 4450. An introduction to operations research techniques with particular emphasis on deterministic models. Linear programming, dynamic programming, goal programming, integer programming, and PERT/CPM networks are considered.

ESI 4313 Probabilistic O. R. (3) EN EGS

ESI 4523 Systems Simulation (3) EN EGS
PR: ESI 4313. A study of the development and analysis of computer simulation models: Monte Carlo, time-slice, and next-event. Introduction to special purpose simulation languages.

ESI 4606 Engineering Analytics I (3) EN EGS
PR: EGN 3443, ESI 4312. Engineering Analytics I covers the leading techniques that help to identify and manage key data from business processes. Topics covered include techniques for understanding the meaning of data; cleaning up data; transforming data into information.

ESI 4607 Engineering Analytics II (3) EN EGS
PR: ESI 4606. Engineering Analytics II covers important techniques that help to identify and manage key data from industrial engineering processes. Topics covered include data exploration; date visualization; and large-scale engineering system decomposition.

ESI 4620 Design of Industrial Information Systems (3) EN EGS
PR: EGN 3443 and ESI 2009 or COP 2510, or equivalent. The objective of this course is to introduce students to the design and implementation of information systems, with special emphasis on the integration of information flows and databases with the control of manufacturing and service type systems.

ESI 4905 Independent Study (1-5) EN EGS
PR: CI. S/U only. Specialized independent study determined by the student's needs and interests.

ESI 5219 Statistical Methods For Engineering Managers (3) EN EGS
Not open to students who have had EGN 3443. Study of statistical methods applied to engineering management problems involving estimation and prediction under conditions of uncertainty.

ESI 5236 Reliability Engineering (3) EN EGS

ESI 5306 Operations Research For Engineering Management (3) EN EGS
Not open to students who have had ESI 4312. ESI 5219 or equiv., majors only. Linear programming, non-linear programming, queuing, inventory, network analysis.

ESI 5522 Computer Simulation (3) EN EGS
PR: ESI 4521 or equiv., majors only. Design of discrete and continuous simulation models. Model validation and verification. Statistical analysis of simulation model output.

ETG 3612 Operations Management (3) AS LIS
PR: MAC 1105. CR: STA 2023. This course examines global strategies, project management, forecasting, location, scheduling, human resources, quality and math models as applied to the design and management of industrial operations.

ETG 3931 Special Topics in Information Technology (1-4) AS LIS
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

ETG 3933 Selected Topics in Technology (1-5) AS LIS
Selected Topics in Technology I is repeatable for 12 credit hours.

ETG 3934 Selected Topics in Technology II (1-5) AS LIS
Selected Topics in Technology II is repeatable for 12 credit hours.

ETG 4930 Special Topics in Information Technology (1-4) AS LIS
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

ETG 4931 Special Topics in Technology I (1-5) EN ESB
Special Topics in Technology.

ETG 4932 Special Topics in Technology II (1-5) EN ESB
Special Topics in Technology.

ETI 4116 Industrial Quality Control (3) AS EIT
PR: STA 2023. This course teaches the students the fundamental concepts of managing a quality assurance system.

EUH 2000 Western Civilization I (3) AP HTY
This course surveys the development of western civilization from the beginnings of Near Eastern civilization to the Renaissance.
EUH 2001 Western Civilization II (3) AP HTY
This course surveys the development of western civilization from the Renaissance to the present.

EUH 2011 Ancient History I HP CAHU HHCP (3) AS HTY
An introductory survey of ancient history. EUH 2011 treats the ancient Near East, Egypt and Greece from the origins of civilization to the Hellenistic kingdoms following the death of Alexander the Great.

EUH 2012 Ancient History II HP CAHU HHCP (3) AS HTY
An introductory survey of ancient history. EUH 2012 deals with Rome through the Regal, Republican, and Imperial periods, from the beginnings of civilization in Italy to the division of the Roman Empire, A.D. 285.

EUH 2021 Byzantine Empire HP (3) AS HTY
A thematic survey of the history of the medieval Byzantine Empire and neighboring civilizations from ca. 284-1453.

EUH 2022 The Medieval West HP CAHU HHCP (3) AS HTY
An introductory survey of medieval history. EUH 2022 examines the European and Mediterranean worlds, exploring the evolution and transformation of beliefs, institutions and social structures, ca. 500-1500.

EUH 2030 Modern European History I HP CAHU HHCP (3) AS HTY
A thematic survey of Europe in the modern age. EUH 2030 treats the period from the Renaissance to the French Revolution.

EUH 2031 Modern European History II HP CAHU HHCP (3) AS HTY
This course explores the social, political and economic forces which have shaped Europe over the past two hundred and fifty years.

EUH 3142 Renaissance and Reformation (3) AS HTY
A history of Europe from the Renaissance to the Thirty Years' War (1400-1618). The cultural, social, and economic characteristics will provide the framework for artistic, philosophical, religious, and political developments.

EUH 3181 Medieval Culture (3) AS HTY
A survey of thought, culture, and art in the Middle Ages. Medieval attitudes as manifested in literature, art, philosophy, education, and religion; with emphasis upon Medieval man's changing perception of himself and his world.

EUH 3185 Viking History (3) AS HTY
The role of the Vikings in the shaping of Western history. A comprehensive survey of their institutions, outlook and daily life. Viking expansion into Europe and North America.

EUH 3188 Medieval Society (3) AS HTY
A study of the daily life and attitudes of the medieval nobleman, peasant, townsman, and the agrarian-urban economy and society which affected their lives.

EUH 3189 Medieval Politics (3) AS HTY
An inquiry into the nature, distribution, and use of political power during the Middle Ages, in such institutions as feudalism, monarchy, cities, and the church.

EUH 3202 History of 17th and 18th Century Europe (3) AS HTY
A history of Europe from the beginning of the Thirty Years’ War to the outbreak of the French Revolution. Political and intellectual developments will be assessed in the light of society and the economy.

EUH 3205 History of Nineteenth Century Europe (3) AS HTY
A comparative study of economic, political, social, and intellectual developments in nineteenth century Europe.

EUH 3206 History of Twentieth Century Europe (3) AS HTY
A comparative study of economic, political, social, and intellectual developments in twentieth century Europe.

EUH 3401 Classical Greece (3) AS HTY
A study of ancient Greece focusing on the brilliant period following the Persian Wars, but embracing as well the formative Bronze, Middle and Archaic ages, and the decline culminating in the conquest of Greece by Philip II of Macedon in 338 B.C.

EUH 3402 Age of Alexander (3) AS HTY
A study focusing on the career of Alexander the Great and on the Greek and Macedonian conquest of Imperial Persia. Also treated are the great hellenistic kingdoms prior to Rome's conquest of the eastern Mediterranean.

EUH 3412 Roman Republic (3) AS HTY
A study of the Roman Republic from 509 B.C. to the assassination of Julius Caesar in 44 B.C., with a prelude treating Rome's early development under royal rule. Political growth and change provide the framework for the treatment.

EUH 3413 Roman Empire (3) AS HTY
A study of Imperial Roman from the assassination of Julius Caesar in 44 B.C. to the death of the emperor Constantine in A.D. 337. Emphasized is Rome's government of a vast Mediterranean empire including much of the near East and Europe.

EUH 3462 German History 1870 to the Present (3) AS HTY
A political, social, and cultural approach to the history of the German Empire from 1870 through the 1970's. The nation's two attempts to try for world power status are highlighted, as well as the Weimar Republic, prototype of the embattled democracy.

EUH 3501 British History to 1688 (3) AS HTY
A study of major developments in British history from the 15th century to 1688.

EUH 3502 British History 1688 to Present (3) AS HTY
A study of the major themes of British history since the Glorious Revolution, including social, political, and economic developments leading to the creation
of the modern demographic welfare state.
EUH 3575 History of Imperial Russia, 1689-1917 (3) AS HTY
A survey of social, political, economic, and cultural development in the Russian Empire from Peter the Great to Nicholas II. Topics include the expansion and modernization of the Empire, the culture of the Imperial court, peasant rebellions, social and legal reforms, the role of the West, and the collapse of the Romanov dynasty.
EUH 3576 History of the Soviet Union, 1917-1991 (3) AS HTY
A study of Soviet society under communism from the Revolution to the collapse of the USSR. Topics include the origins and development of revolutionary socialism, the Bolshevik seizure of power, Stalinism and the Great Terror, popular dissent and resistance, the treatment and experience of ethnic minorities, Gorbachev and the dissolution of the Soviet Union.
EUH 3676 History of Orthodox Religion (3) AS HTY
This course provides an overview of the history and theology of Orthodox Christianity. It examines the rise of the early Christian church in the first century AD and explores the eastern Christian Orthodox through the fifteenth century AD.
EUS 3000 Europe SS (3) AS GIA
Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.
EUS 3022 Russia SS HP AP (3) AS GIA
Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.
EVR 2001 Introduction to Environmental Science NS (3) AS ESP
An introductory lecture course linking the human and physical/biological world. The course will develop an understanding of population and resource interactions.
EVR 2001L Environmental Science Lab (1) AS ESP
A laboratory course linking the human and physical/biological world. The lab will develop an understanding of population and resource interactions and complement the lecture course. Field trips.
EVR 2002 Environmental Science: Regional and Global Issues NS CANP (3) AS ESP
Students will learn how the environment functions and how humans, through social, political and economic activities, are creating a degraded, dysfunctional environment.
EVR 2217 Energy, Environment and Sustainability NS CANP (3) EN ECH
PR: MAC 1105. A critical analysis of energy sources, distribution and consumption using scientific methodology. Attributes of commonly used energy sources including environmental impact. Social, political and economic implications from a global perspective.
EVR 2861 Introduction to Environmental Policy (3) AS ESP
An introduction to environmental policy using class lectures, student projects, and independent readings. Emphasis will be placed on understanding basic policy mechanisms and major policy actions relating to environmental issues at the local, national and international level.
EVR 4027 Wetland Environments MW CPST (3) AS ESP
Study of the general properties and ecology of wetlands, examination of the distribution and functions of wetlands, and consideration of wetland conservation and policies.
EVR 4033 Environmental Regulation (3) AS ESP
PR: EVR 2861. An in-depth review of the federal environmental regulatory structure of the United States, governing air and water quality, waste disposal, safety, and natural resource use and conservation.
EVR 4104 Karst Environments NS (3) AS ESP
PR: EVR 2001. The objective is to provide an understanding of the scientific principles pertaining to karst environments in Florida and around the world. Both physical processes and human interactions/impacts will be examined. Not restricted to majors and not repeatable.
EVR 4114 Climate Change NS CPST (3) AS ESP
PR: EVR 2001. The objective is to provide an understanding of the scientific principles pertaining to global and regional climate change. Both mechanisms causing the change and human impacts on climate will be examined. Not restricted to majors and not repeatable.
EVR 4218 Research Methods in Wildlife Ecology (3) AS ESP
Research Methods in Wildlife Ecology will review the ways in which data are collected, analyzed, and reported, so that informed decisions about wildlife management and conservation can be made. The course will have both classroom and field components.
EVR 4873 Environmental Policy and Sustainability (3) AP GEP
PR: (EVR 2861, UG, C-) and [(ECO2013, UG, C-) or (ECO 2023, UG, C-)]. This interdisciplinary course is designed to provide students with an informative overview and comprehensive assessment of environmental policy application to sustainability issues, problems, and solutions.
EVR 4900 Directed Readings (1-6) AS ESP
To provide advanced students with interdisciplinary research experience in areas of specific interest.
EVR 4905 Independent Study (1-6) AS ESP
To provide advanced students with the opportunity for independent study in areas of specific interest.
EVR 4910 Environmental Science and Policy Project (3-12) AS ESP
Open to senior majors only. S/U only. Environmental science project consisting of research in a field related to environmental science/environmental policy. Supervised by a faculty member. Contract and report required.

EVR 4921 Environmental Science and Policy Seminar (1) AS ESP
Restricted to senior majors. S/U only. A topical reading and discussion seminar focusing on the interdisciplinary nature of environmental science and environmental policy.

EVR 4930 Selected Topics (1-4) AS ESP
Each topic is a course under the direction of a faculty member with the content depending on the interests of the students and faculty involved. All areas of Environmental Science, Policy, Ethics and Law included.

EVR 4940 Environmental Science Internship (3-12) AS ESP
Open to senior majors only. S/U only. The purpose of this course is to promote the student's understanding and application of environmental science and policy within a practical organizational context. Contract and report required.

EVT 4651 Equity in Schools and the Workplace 6A MW CPST (3) ED EDV
Examine equity issues related to gender, race, culture, economics in schools/workplaces. Explore legal, ethical, psychological, social perspectives including stereotyping, prejudice and discrimination for personal implications and systems change.

EVT 4940 Internship: Industrial-Technical Education (1-12) ED EDV
CR: EVT 4936. S/U only. One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9-12 semester hours.

EVT 4946 Supervised Field Experience: Industrial-Technical Education (1-6) ED EDV
PR: CI. S/U only. Planned supervised functions in a field related to environmental science or policy within a practical organizational context. Contract and report required.

EXP 4014 Sensory Processes (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. Available to both majors and non-majors. Psychophysical and neurophysiological data and theory underlying sensory processes. Visual, auditory, chemical, and somatosensory systems, with particular emphasis on visual processes.

EXP 4204C Perception (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. Topics include sensory and physiological bases of perception and how people process relevant information in their environments.

EXP 4304 Motivation (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. A survey of motivational processes and mechanisms from physiological and psychological viewpoints.

EXP 4404 Psychology of Learning (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. Survey of methods, empirical findings, and theoretical interpretations in conditioning and instrumental learning.

EXP 4640 Psychology of Language (3) AS PSY
PR: PSY 3213. Historical survey of relations between psychology and linguistics leading to the emergence of psycholinguistics as a field of study. The current status of theory and research in the field will be covered.

EXP 4680C Cognitive Psychology (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. Survey of methods, empirical findings, and theoretical interpretations of human learning, information processing, verbal learning, and judgment and decision-making.

FIL 1002 Introduction to Film Studies HP SS CAHU HHCP (3) AS HCS
Students will be introduced to key concepts and techniques of Film Studies, including the history of film; an examination of film genres; an overview of foreign cinema; and the study of issues of class, race, gender, and sexuality.

FIL 3052 Foundations of Film & New Media (3) AS HCS
PR: FIL 1002. Offering an advanced introduction to the first 65 years of international film history, this course joins questions of aesthetic and narrative practice to explorations of various film genres, film movements, and national cinemas.

FIL 3077 Contemporary Film & New Media (3) AS HCS
PR: FIL 1002. Offering an advanced introduction to global motion picture practice after 1959, this course explores the aesthetics of film and new media across various genres, movements, and national contexts.

FIL 3400 Film as Mass Communication II (3) AS COM
A continuation of FIL 3004 to include the effective arrangements of scenes and sequences in motion picture and television films.

FIL 3427C Beginning Film (3) FA ART
Intermediate problems in film with emphasis on the exploration of materials and media and the development of individual concepts.

FIL 3854 Film Art 6A WRIN (3) FA ART
The course is an in-depth study of film language and history, focusing on its unique social, political and cultural significance. Students explore the heterogeneous nature of film by examining its role in popular culture and visual art discourse.

FIL 4050 Social History of the Film, 1945 to the Present (3) AS COM
PR: MMC 2100 and MMC 3602 or DPR. The development of the film from 1945 to the present.
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG

FIN 4414 Advanced Corporation Finance (3) BA FIN
PR: FIN 3403. A senior seminar for majors in Finance. Primarily a case course examining financial policies and the application of financial analysis to alternative strategies.

FIN 4433 Financial Policies and Strategies (3) BA FIN

FIN 4443 Financial Policies and Strategies (3) BA FIN
PR: FIN 4414. An examination of the financial financing, cash management, credit and collection policy, operations of a firm. Topics to be covered include decision related to managing the current financial management - that is, policies and legal constraints.

FIN 4461 Financial Statement Analysis (3) BA FIN
PR: FIN 4404. A comprehensive study of security selection and management. Traditional financial models and theories are examined and evaluated via statistical and regression analysis. Non-majors ok.

FIN 4504 Principles of Investments (3) BA FIN
PR: ECO 2013 and FIN 3403. Survey of the risks and returns of investment media in relation to the investment objectives of individual and institutional investors. Includes an examination of the capital markets, information flows, and analytical techniques in terms of their impact on the valuation process.

FIN 4514 Advanced Investment Analysis and Management (3) BA FIN
PR: FIN 4504. A comprehensive study of security analysis and portfolio management. The course will utilize a quantitative approach to investment selection and management.

FIN 4533 Financial Option & Futures (3) BA FIN
PR: FIN 4504. This course covers financial futures and options markets, the fundamental properties and pricing principles of these instruments, as well as hedging and risk management strategies using such instruments. The course is not repeatable for credit.

FIN 4560 Applied Securities Analysis (3) BA FIN
PR: FIN 4504 and CI. In this course students manage a portfolio of real money, which provides them hands-on experiences in stock analyses, decision making, and effective communication. Students also network with investment professionals. Repeatable for up to 6 credit hours.

FIN 4905 Independent Study (1-3) BA FIN
PR: CI, CC. S/U only. Specialized independent study determined by the student’s needs and interests.

FIN 4915 Independent Research (1-3) BA FIN
PR: CI, CC. The research project will be mutually
COURSE DESCRIPTIONS

FIN 4934 Selected Topics in Finance (1-3) BA FIN
Topics to be selected by instructor and department chairperson on pertinent finance issues.

FIN 4970 Finance Honors Thesis (3) BA FIN
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

FLE 4290 Technology in the Foreign and Second Language Classroom (3) ED EDI
This course prepares pre-service and in-service teachers to infuse technology into foreign language and ESOL instruction. Students will develop technology skills and knowledge based on sound pedagogical principles that reflect research and theory in Second Language Acquisition and will apply this practical and theoretical knowledge to K-16 Foreign Language/ESOL instructional situations.

FLE 4314 Methods of Teaching Foreign Languages and ESOL in the Elementary School (3) ED EDI
PR: EDG 4620 or concurrent registration. Fluency in target language and in English. Methods of planning and teaching foreign languages in the elementary school. The emphasis is on teaching communicatively and on integrating culture in the K-6 classroom.

FLE 4316 Language Principles and Acquisition (1-3) ED EDI
PR: FLE 4317. Overview of applied Second Language Acquisition theory and the components of language, linking them to methods and techniques of providing comprehensible instruction and supporting the development of oral proficiency and literacy skills for (LEP) children.

FLE 4317 Teaching Students with Limited English Proficiency (3) ED EDI
This course is designed to prepare preprofessional teachers to provide linguistically and culturally appropriate instruction, assessment, and learning opportunities for students with Limited English Proficiency.

FLE 4333 Methods of Teaching Foreign Languages and ESOL in the Secondary School (3) ED EDI
PR: FLE 4314. Fluency in the target language and in English. Methods of teaching foreign languages within a communicative framework. Includes examination and practice of current instructional techniques in listening, speaking, reading and writing skills, testing, error correction, and computer assisted language instruction. The emphasis is on teaching foreign languages and teaching for cultural understanding at the secondary level 7-12.

FLE 4370 Practicum in Foreign Language Teaching in the Secondary School (3) ED EDI
PR: Senior standing or enrollment in Plan II Master's Program or DPR. Required concurrently with FLE 4314 or FLE 4333. Fluency in the target language and in English. Pre-internship field experience in a K-12 environment. Will include observation and practice in a K-12 classroom as well as class meetings.

FLE 4936 Senior Seminar in Foreign Language Education CPST (3) ED EDI

FLE 4940 Internship: Foreign Language Education (1-12) ED EDI
Intern takes Senior Seminar in Education concurrently. S/U only. One full semester of internship in a public or private school.

FLE 5145 Language Principles, Acquisition and Teaching (3) ED EDI
PR: FLE 5345 Restricted to Education majors and not repeatable for credit. Overview of applied SLA theory and components of language. Methods & techniques of comprehensible instruction and the development of oral proficiency and literacy skills for LEP children.

FLE 5291 Technology in the Foreign Language Classroom (3) ED EDI
PR: FLE 5313 and FLE 5331. This course is intended to prepare foreign/second language teachers to provide pedagogically sound and technologically enhanced instruction for foreign language and second language students in the K-16 realm. Basic computer literacy is recommended.

FLE 5313 Methods of Teaching Foreign Language and ESOL in the Elementary School (3) ED EDI
This course is designed to provide training in the theory and methods of teaching foreign languages and ESOL in the elementary school (FLES) to both pre- and in-service teachers.

FLE 5331 Methods of Teaching Foreign Language and ESOL in the Secondary School (3) ED EDI
PR: FLE 5313. This course provides for the development of knowledge and skills necessary to prepare students to assume roles as foreign language (FL) and ESOL teachers at the secondary school level. It represents the second part of a sequence of methods courses.

FLE 5345 Teaching English Language Learners K-12 (3) ED EDI
This course is restricted to Education majors and is not repeatable for credit. It is designed to prepare preprofessional teachers to provide linguistically and culturally appropriate instruction, assessment, and learning opportunities for LEP students.

FLE 5366 ESOL Education in Content Areas (3) ED EDI
Enables participants to meet the special linguistic & cultural educational needs of limited English proficient (LEP) students in content area classes. Provides a theoretical & practical foundation for ESOL competencies in courses include ESOL infusion.

FLE 5895 Dual Language Education (3) ED EDI
This course is for teachers who are interested in...
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Type</th>
<th>Notes</th>
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<tbody>
<tr>
<td>FLE 5946</td>
<td>Practicum in Foreign Language/ESOL Teaching</td>
<td>(3) ED EDI</td>
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<tr>
<td>FOL 2100</td>
<td>General Foreign Language I (1-4) AS WLE</td>
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<td>FOL 4101</td>
<td>General Foreign Language II (1-3) AS WLE</td>
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<td>FOS 4041</td>
<td>Food Quality and Composition (3) PH CFH</td>
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<td>FRE 1120</td>
<td>Beginning French I (4) AS WLE</td>
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<td>FRE 1121</td>
<td>Beginning French II (4) AS WLE</td>
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<td>FRE 1120L</td>
<td>Beginning French I Laboratory (1) AS WLE</td>
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<td>FRE 1121L</td>
<td>Beginning French II Laboratory (1) AS WLE</td>
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<td>FRE 1170</td>
<td>Overseas Study-Elem. French (4) AS WLE</td>
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<td>FRE 2200</td>
<td>French III (3) AS WLE</td>
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<td>FRE 2201</td>
<td>French IV (3) AS WLE</td>
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<td>FRE 2240</td>
<td>Conversation II (3) AS WLE</td>
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<td>FRE 2270</td>
<td>Overseas Study-Intro. French (1-6) AS WLE</td>
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<td>FRE 2291</td>
<td>Conversation I (3) AS WLE</td>
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<td>FRE 3234</td>
<td>Reading in French Literature and Culture (3) AS WLE</td>
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<td>FRE 3391</td>
<td>French Cinema (3) AP WLE</td>
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<td>FRE 3420</td>
<td>Composition I (3) AS WLE</td>
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<td>FRE 3440</td>
<td>French For Business (3) AS WLE</td>
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<td>FRE 3470</td>
<td>Overseas Study (1-6) AS WLE</td>
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<td>FRE 3500</td>
<td>French Civilization CPST (3) AS WLE</td>
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<td>FRE 3502</td>
<td>The Francophone World MW (3) AS WLE</td>
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<td>FRE 4392</td>
<td>African Images in Francophone Film HP AP SS MW (3) AS WLE</td>
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bilingual education. The aim is to deconstruct the philosophical, theoretical, political, social and educational underpinning of instruction (K-16) when it is delivered through two languages.

**FLE 5946 Practicum in Foreign Language/ESOL Teaching**

- **PR:** FLE 5313. **CR:** FLE 5331. This course prepares students for their internship by providing a structured pre-internship experience while meeting regularly in a university class. Opportunity to see teachers in action.

**FOL 2100 General Foreign Language I (1-4) AS WLE**

A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less commonly taught languages or in professional interpreting.

**FOL 4101 General Foreign Language II (1-3) AS WLE**

A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less commonly taught languages or for workshops in professional interpreting.

**FOL 4905 Directed Study (1-3) AS WLE**

Departmental approval required.

**FOL 5906 Directed Study (1-3) AS WLE**

- **PR:** FOL 4101 or equivalent.

**FOS 4041 Food Quality and Composition (3) PH CFH**

- **PR:** HUN 2201 Introduction to food quality; the chemical, physical, qualitative changes with storage, preservation, processing, and production; techniques and instrumentation used to determine composition of foods; and importance of food safety. Course is not restricted to majors and is not repeatable for credit.

**FRE 1120 Beginning French I (4) AS WLE**

- **CR:** FRE 1120L. The first course in the study of elementary French. Emphasis on the development of basic skills in comprehension, speaking and reading.

**FRE 1120L Beginning French I Laboratory (1) AS WLE**

- **CR:** FRE 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

**FRE 1121 Beginning French II (4) AS WLE**

- **PR:** FRE 1120 or equivalent. **CR:** FRE 1121L. A continuation of FRE 1120.

**FRE 1121L Beginning French II Laboratory (1) AS WLE**

- **CR:** FRE 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

**FRE 1170 Overseas Study-Elem. French (4) AS WLE**

- **Departmental approval required.** Elementary-level French taught in France. In lieu of FRE 1120 and FRE 1121.

**FRE 2200 French III (3) AS WLE**

- **PR:** FRE 1121 or equivalent. A review of the basic structure of French.

**FRE 2201 French IV (3) AS WLE**

- **PR:** FRE 2200 or equivalent. Readings in French on the intermediate level.

**FRE 2240 Conversation II (3) AS WLE**

- **PR:** FRE 2241 or equivalent proficiency. Conversation practice with concentration on current idiomatic usage.

**FRE 2241 Conversation I (3) AS WLE**

- **PR:** FRE 1121. For development of basic conversational skills.

**FRE 2270 Overseas Study-Intro. French (1-6) AS WLE**

- **PR:** Two semesters of university-level French or equivalent proficiency. Departmental approval required.

**FRE 3234 Reading in French Literature and Culture (3) AS WLE**

- **PR:** FRE 2201 or equivalent. This course is designed to build reading skills in French while giving students a broad background in French culture.

**FRE 3391 French Cinema (3) AP WLE**

- **PR:** FRE 2200 with a minimum grade of C-. Overview of French cinema from invention to present; concentrates on history, stylistic diversity, & thematic range of French cinema; explores cinematic trends & movements; examines film legends as well as contemporary greats; will be taught in French.

**FRE 3420 Composition I (3) AS WLE**

- **PR:** FRE 2200 and/or FRE 2201. A fundamental composition course for students who have completed FRE 2200 and/or 2201.

**FRE 3440 French For Business (3) AS WLE**

- **PR:** FRE 2200 or equivalent. An introduction to the French language in ordinary business transactions.

**FRE 3470 Overseas Study (1-6) AS WLE**

- **Departmental approval required.** An intensive study-travel project in France.

**FRE 3500 French Civilization CPST (3) AS WLE**

- **Readings and discussion on the cultural history of France.**

**FRE 3502 The Francophone World MW (3) AS WLE**

- **An undergraduate 3 credit course, which offers an overview of the main French speaking cultures throughout the world, outside of France:** French Canada, the Caribbean, Belgium, Switzerland, the Maghreb, Sub-Saharan Africa, the Indian Ocean, the Middle East, Southeast Asia, Louisiana.

**FRE 4392 African Images in Francophone Film HP AP SS MW (3) AS WLE**

- **This is a film based course and technologically enhanced course which will look at cultural, socio-
FRE 4261 Composition II (3) AS WLE
Continuation of French composition. This course is designed to follow FRE 3420.

FRE 4471 Advanced Overseas Study (1-6) AS WLE
PR: FRE 3470 or CI. Departmental approval required. Intensive language study in France.

FRE 4700 French Linguistics (3) AS WLE
PR: LIN 3010 and FRE 2201 or equivalent. An introduction to the phonological, morphological and syntactic structure of French.

FRE 4905 Directed Study (1-3) AS WLE
Departmental approval required.

FRE 4930 Selected Topics (1-3) AS WLE
Study of an author, movement or theme.

FRE 5425 Advanced Written Expression (3) AS WLE
PR: FRE 4421, or equivalent. Course is designed to give advanced training in free composition in French.

FRE 5566 Contemporary France (3) AS WLE
PR: FRE 3500 or equivalent or graduate standing. An advanced course in French civilization and culture including a study of recent social, artistic and political trends as well as various current intellectual movements. Text and discussions in French.

FRT 3001 Great French Love Stories in Translation 6A MW WRIN (3) AS WLE
PR: Junior or senior status, completion of ENC 1101 and 1102 or their equivalent. A survey of the great love stories that French literature gave to the world from the Middle Ages to the 21st century and that contributed to the evolution of love, influencing not only other literatures but also other cultures throughout history.

FRT 3140 French Literary Masterpieces in English Translation 6A LW WRIN (3) AS WLE
PR: Junior or senior status, completion of ENC 1101 and 1102 or their equivalent. A survey of the major literary works of France, tracing not only literary but also intellectual and cultural history from the Middle Ages to the present.

FRW 4100 The French Novel MW (3) AS WLE
PR: FRE 3234, FRE 3420 or CI. Study of the most representative novels from the 17th - 20th centuries in France, examining literary movements, ideas, and techniques. Course taught in French.

FRW 4101 Introduction to French Drama and Poetry MW (3) AS WLE
PR: FRE 3234. A study of the history of drama and poetry. Will include medieval drama, Racine, Corneille, Moliere, Anouilh, Sartre, Ionesco and others. Will also include Villon, Ronsard, DuBellay, Lamartine, Hugo, Vigny, Musset, Baudelaire, Mallarme, Rimbaud, Valery, Peguy, Eluard, Apollinaire, Char, and others. Course content may vary from year to year. Course taught in French.

FRW 5222 Classical Prose and Poetry (3) AS WLE
PR: FRW 4101. Emphasis on Malherbe, Descartes, Pascal, La Fontaine, and Boileau.

FRW 5226 20th Century Poetry and Theatre (3) AS WLE

FRW 5286 The 20th Century Novel (3) AS WLE
PR: FRW 4100. Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet.

FRW 5314 Classical Drama (3) AS WLE
PR: FRW 4101. Corneille, Moliere, and Racine.

FRW 5415 Literature of the Middle Ages (3) AS WLE
PR: FRW 4100 or FRW 4101. Major genres, including epics, Arthurian romances, drama and lyric poetry. Reading in modern French translation.

FRW 5425 Literature of the Renaissance (3) AS WLE
PR: FRW 4100 or FRW 4101. A study of Renaissance French humanism including Rabelais, Montaigne, and Pleiade poets.

FRW 5445 18th Century Literature (3) AS WLE
PR: FRW 4100. The classical tradition and the new currents of thought in the Age of Enlightenment.

FRW 5535 Romanticism and Early Realism (3) AS WLE
PR: FRW 4101. A study of the romantic and early realistic movements with emphasis on Lamartine, Vigny, Musset, Hugo, and Balzac.

FRW 5556 Naturalism and Realism (3) AS WLE
PR: FRW 4100 or FRW 4101. A detailed study of realism and naturalism with emphasis on Flaubert, Zola, les Goncourt, Maupassant, and Daudet.

FRW 5745 French Literature of Quebec (3) AS WLE
PR: A survey of Francophone literature and cultures is recommended. Overview of the main representative literary works in French from Quebec in all genres (poetry, drama, novel, short story) as well as a survey of the main traits of Quebec history & culture. Open to non-majors. Not repeatable for credit. Taught in French.

FRW 5755 African and Caribbean Literature (3) AS WLE
PR: A survey of French literature. An overview of the main representative literary works in French from North and SubSahara Africa as well as the Caribbean. Open to non-majors and not repeatable for credit. Course taught in French.

FRW 5829 An Introduction to Modern French Literary Criticism (3) AS WLE
A graduate elective 3 credit course entirely taught in French, which offers a survey of the main trends and methods in 20th Century literary criticism, the French having been at the avant-garde of the field.

FRW 5934 Selected Topics (1-3) AS WLE
PR: Upper-level or graduate standing. Study of an author, movement or theme.

FSS 3231 Introduction to Food Production Management (3) HM HRM
Food preparation, standards and techniques in commercial food production and service. Factors affecting the quality of food, practical experience in

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food production and service, in accordance with
food standards, sanitation & safety and cost control.
GEA 2000 World Regional Geography SS HP AP
CAGC (3) AS GPY
Comparison and analysis of representative regions of
the world, with emphasis on cultural, political, economic, environmental, and physical diversity.

GEA 3194 Regional Geography (3) AS GPY
Variable title course to systematically study and
compare special regions identified by the instructor.

GEA 3405 Geography of Latin America 6A (3) AS
GPY
Systematic geographic analysis of the Latin
American world region, with emphasis on its
cultural, political, economic, environmental, and
physical diversity.

GEA 3500 Geography of Europe 6A (3) AS GPY
Systematic geographic analysis of the European
world region, with emphasis on its cultural, political,
economic, environmental, and physical diversity.

GEA 3703 Geography of Asia (3) AS GPY
Systematic geographic analysis of the Asian world
region, with emphasis on its cultural, political,
economic, environmental, and physical diversity.

GEB 2000 World Regional Geography SS HP AP
CAGC (3) AS GPY
Comparison and analysis of representative regions of
the world, with emphasis on cultural, political, economic, environmental, and physical diversity.

GEB 2350 Doing Business Around the World SS (3)
BA GBA
This course introduces the student to: 1) the nature
of international business; 2) the framework of
international organizations and the monetary
system within which international business
functions; 3) forces affecting international business,
and 4) management responses to problems caused
by international environments.

GEB 2935 Selected Topics in Business (1-6) BA
GBA
Topics to be selected by department chairs.

GEB 3373 International Business (3) BP GBA
PR: Restricted to upper division. An overview of
unique problems faced by firms engaging in
international activities across a broad spectrum of
business activities including topics such as:
accounting, finance, management, marketing,
import-export, multi-national; country-risk analysis.

GEB 4890 Strategic Management and Decision
Making MW CPST (3) BA GBA
PR: Senior standing and FIN 3403, MAN 3025,
MAR 3023. This capstone course focuses on
helping students develop a top-level executive
perspective on managing a business, and requires
students to integrate the theoretical and functional
area concepts, principles, and skills learned in
previous coursework.

GEB 4894 Healthcare Strategy (3) BP GBA
Capstone course; primary focus to understand the
role of strategic decision making in evaluating
environmental factors impacting a healthcare firm,
formulating & implementing decisions based on
environment and evaluating the effectiveness of
decisions.

GEB 4905 Independent Study (1-3) BA GBA
PR: CI. S/U only. Specialized independent study
determined by the student's needs and interests.

GEB 4915 Independent Research (1-4) BA GBA
PR: CI. Individual study contract with instructor and
department chairperson required. The research
project will be mutually determined by the student
and instructor.

GEB 4935 Selected Topics in Business
Administration (1-4) BA GBA
The content and organization of this course will
vary according to the current interests of the faculty
and needs of students.

GEB 4970 General Business Honors Thesis (3) BA
GBA
This course is the climax of an undergraduate
experience in the College of Business. Thesis
development supports critical investigation to
develop explanations or solutions to academically
interesting business problems or opportunities.

GEO 1930 Geography of Current Events SS (4) AS
GPY
For non-majors only. Application of basic
geographic principles to the analysis of
contemporary events in various parts of the world.

GEO 2200 Introduction to Physical Geography NS
CANGP (3) AS GPY
This course explores the principles of physical
geography; maps; earth sun relationships;
meteorological, hydrological, pedagogical, aeolian,
and glacial processes, and resulting landforms.

GEO 2200L Introduction to Physical Geography
Lab (1) AS GPY
CR: GEO 2200. Laboratory portion of Introduction
to Physical Geography (GEO 2200).

GEO 2371 Introduction to Earth Systems Science
NS CANGP (3) AS GPY
For non-majors only. This course provides a general
overview of the earth, the inter-relationship between
its functional systems, and a review of human
impacts on the earth system at all scales.

GEO 2400 Human Geography SS CAGC (3) AS GPY
Human geography encompasses those branches
in geography which focus primarily upon the
relationships between humans and the
environments they construct. This course will
examine the object of study of human geography,
as well as explore many of the components of
human geography, including economic geography,
geopolitics, cultural geography, urban geography,
population geography, and the relationships
between geography and globalization.

GEO 2931 Special Topics (1-4) AS GPY
Topics are at the discretion of the instructor. This
course will offer lower level topics to attract new
majors.

GEO 3164C Research Methods in Geography (3)
AS GPY
PR: STA 2023 or STA 2122 or QMB 2100. Statistical analysis in geographic research.

GEO 3352 The Human Footprint on the Landscape
(4) AP GPY
The study of human-environment relationships
from a primarily geographic perspective, focusing on the human forces that shape landscapes.

**GEO 3602 Urban Geography (3) AS GPY**
- **PR:** GEO 2400 or CI. Spatial analysis of urban areas; growth, location, spacing, and size. Development, site, situation, internal structure, and hinterland are considered.

**GEO 4114C Geographic Techniques and Methodology (3) AS GPY**
- **PR:** GIS 3006 and GEO 3164C, or CI. Selected topics in various geographic techniques and methodologies and their application.

**GEO 4204C Topics in Physical Geography (3) AS GPY**
- **PR:** GEO 2200 or CI. Intensive study of a topic selected from physical geography.

**GEO 4210 Process Geomorphology (3) AS GPY**
- **PR:** GEO 2200 or GLY 2010 or CI. Origin, evolution, and distribution of the landforms of North America.

**GEO 4244 Tropical Meteorology NS (3) AS GPY**
- **PR:** GEO 2200, one approved Calculus course, or CI. This course examines the tropical atmosphere, its interaction with land and ocean, as well as weather and climate phenomena that are unique to the topics. Students will take an in-depth look at hurricane climatology, the El Nino and Southern Oscillation phenomenon, thunderstorms and lightning, satellite remote sensing, monsoons, sea-breeze convergence and Florida climatology, surface energy exchange, land use change and its impact on tropical climates.

**GEO 4265 Soil Genesis and Classification (3) AS GPY**
- **PR:** GEO 2200, or CI. A systematic study of soil genesis and classification with a focus on North American and Florida soils.

**GEO 4280C Hydrology (3) AS GPY**
- **PR:** GEO 2200 or CI. Introduction to the general principles that govern hydrologic processes. Approaches to hydrologic measurements and the application of hydrologic analyses to water-resource management issues are examined.

**GEO 4284 Water Resources Management NS (3) AS GPY**
- **PR:** Senior standing. Geographic perspectives on water resources management at the global, national and local scale, including political, socio-economic, technical and scientific aspects.

**GEO 4300 Biogeography (3) AS GPY**
- **PR:** GEO 2200 and GEO 3164C, or CI. Analysis of the present and past distribution of species at an intermediate to large spatial scale.

**GEO 4340 Natural Hazards (3) AS GPY**
- **PR:** Junior or Senior Standing. Examination of the physical, social, economic, political and cultural forces that create the phenomena of natural hazards. Case studies from around the world will include floods, droughts, tornadoes, hurricanes, freezes, heat waves, wild fires, earthquakes, tsunami, and volcanoes.

**GEO 4372 Global Conservation 6A MW (3) AS GPY**
- The distribution, exploitation, and conservation of physical and human resources, ecology.

**GEO 4421 Cultural Geography (3) AS GPY**
- **PR:** GEO 2400 or CI. The interrelationships of culture and nature, from ancient times to the present.

**GEO 4450 Medical Geography (4) AP GPY**
- **PR:** GEO 2200 with a grade of C or better and Junior or Senior Standing. Deepen understanding of spatial patterns of health/disease at local, regional & global scales; social, cultural, political, economic & epidemiological processes that underlie these patterns; varied approaches to addressing health inequalities/needs.

**GEO 4471 Political Geography MW (3) AS GPY**
- **PR:** GEO 2400 or CI. The geographic factors underlying political decisions and influencing their outcome; the geographic consequences of these decisions; geopolitics.

**GEO 4502 Economic Geography (3) AS GPY**
- **PR:** GEO 2400 or CI. The spatial organization of economic production, consumption, and exchange systems.

**GEO 4604 Topics in Urban Geography MW (3) AS GPY**
- **PR:** GEO 3602, or CI. Intensive examination of issues such as economic restructuring and inner-city decline, ghetto formation, gentrification, transportation, and policy-making.

**GEO 4700 Transportation Geography (3) AS GPY**
- **PR:** GEO 2400 and GEO 3164C or CI. General concepts related to the movement of goods and people, with particular emphasis on spatial principles and urban transportation problems and planning.

**GEO 4900 Directed Reading (1-4) AS GPY**
- **PR:** 20 hours in geography and CI prior to registration.

**GEO 4910 Individual Research (1-4) AS GPY**
- **PR:** 20 hours in geography and CI prior to registration.

**GEO 4930 Selected Topics (4) AS GPY**
- Topics are at the discretion of the instructor. This course will offer upper level, advanced topics in all aspects of Geography. Course can be repeated for credit as long as the title is different, for up to 8 credits.

**GEO 4933 Geography Colloquium (1) AS GPY**
- Senior Standing in geography Weekly topical lectures by faculty and outside speakers. Students will develop a plan for their professional or graduate careers.

**GEO 4940 Internship in Geography (1-4) AP GPY**
- **PR:** GPY majors only. Supervised field experience in local, national, and overseas government, NGOs, and private sector enterprises. Restricted to majors. Nonrepeatable.

**GER 1120 Beginning German I (4) AS WLE**
- **CR:** GER 1120L. Development of basic skills in listening and reading comprehension, speaking and
writing of German.

GER 1120L Beginning German I Laboratory (1) AS WLE
CR: GER 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

GER 1121 Beginning German II (4) AS WLE
PR: GER 1120 or equivalent. CR: GER 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing German.

GER 1121L Beginning German II Laboratory (1) AS WLE
CR: GER 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

GER 2200 German III (3) AS WLE
PR: GER 1121 or equivalent. A review of the basic structure of spoken and written German. May be taken concurrently with GER 2201.

GER 2201 German IV (3) AS WLE
PR: GER 1121 or equivalent. Readings in German on the intermediate level. May be taken concurrently with GER 2200.

GER 2240 Conversation I (3) AS WLE
PR: GER 1121. For development of basic conversational skills.

GER 3333 German Language & Culture through Film (3) AS WLE
PR: GER 2200 or above. This is a German conversation course which allows students to improve upon their German speaking, reading, and listening skills. German films will be used as the basis for oral communication practice. The language of instruction is German.

GER 3420 Composition I (3) AS WLE
A fundamental course for students who have completed GER 2200 or GER 2201.

GER 3440 German for Business and International Trade (3) AS WLE
PR: GER 2200, or CI. An introduction to the German language in ordinary business transactions.

GER 3500 German Civilization (3) AS WLE
PR: GER 2200 or GER 2201. Readings in German on the cultural history of Germany.

GER 3573 Cultural Observations in Germany (3) AS WLE
This course allows students to experience Germany from a cultural/historical perspective and gives them insights into a city’s significance within Germany as a whole. It also includes an emphasis on German language use and cultural practices.

GER 4410 Conversation II (3) AS WLE
Free conversation based on the current German idiom.

GER 4421 Composition II (3) AS WLE
Practical training in modern German usage and differences of style.

GER 5605 Goethe (3) AS WLE
Selected novels, poems: Werther, Wahlverwandtschaften, Wilhelm, Meister, Westöstlicher, Divan.

GER 5845 History of the German Language (3) AS WLE
A diachronic approach to the study of the German language. The course traces the history and development of the language from Indo-European through Germanic, Old, Middle, and New High German.

GET 3103 German Literature in English Translation MW (3) AS WLE
Analysis and interpretation of selected major works of German literature, to be read in English, with regard to their thought content and relevance to our thoughts and actions.

GET 3522 Fantastic Films of Early German Cinema HP MW (4) AS WLE
An overview of early 20th century German films with emphasis on horror, science fiction, and fantasy films. Course offers insights into Germany’s artistic, intellectual, and social history, as well as general film history and criticism. Taught in English.

GET 3524 German Popular Film HP MW (3) AS WLE
Overview of films with significant popular success at German box office from 1920s to present. Films will be discussed in the context of Germany’s artistic, intellectual, and social history as well as general film history and criticism. Taught in English.

GET 4523 New German Cinema to Present MW HP (4) AS WLE
An overview of post-1945 Ger films with emphasis on films from New Ger Cinema (1960s-early 80s) & its aftermath. Course offers insights into Germany’s artistic, intellectual, and social history, as well as general film history and criticism. Taught in Eng.

GET 4528 German Directors in Hollywood (3) AS WLE
This course examines films by German émigré directors produced in Hollywood throughout the twentieth and twenty-first centuries.

GEW 4100 Survey of German Literature I (3) AS WLE
Course will examine a variety of texts from the 9th to the early 19th century, exposing significant moments in German literature and thought and exploring diverse perspectives on German culture and society. Course taught in German. Not repeatable.

GEW 4101 Survey of German Literature II (3) AS WLE
Course will examine a variety of texts from the 19th century to the present, exposing significant moments in German literature and thought and
exploring diverse perspectives on German culture and society. Course taught in German. Course not repeatable.

**GEY 4750 Women in Contemporary German Literature and Film (3) AS WLE**
PR: GER 2200 or above or CI. This course serves as an introduction to contemporary literary works and films by women writers and directors from German speaking countries. It will examine the works based on feminist literary and cultural theory.

**GEY 4900 Directed Study (1-3) AS WLE**
Departmental approval required.

**GEW 4930 Selected Topics (1-3) AS WLE**
Study of an author, movement or theme.

**GEW 5606 Faust (3) AS WLE**
Sources, form, content, and literary significance of Urfaust and Faust.

**GEW 5615 Schiller (3) AS WLE**
Selected dramas, philosophical, and aesthetical writings.

**GEW 5934 Selected Topics (1-3) AS WLE**
PR: Upper-level or graduate standing. Study of an author, movement or theme.

**GEY 2000 Introduction to Gerontology SS CASB (3) BC GEY**
This course is designed to be an introduction to the study of aging. The aging process is viewed from a multi-disciplinary perspective including the biological, psychological, and sociological aspects of aging.

**GEY 3323 Community Resources for the Older Adult (3) BC GEY**
This class is designed to introduce students to services available to older adults and to careers in the field of Aging Services. Content includes theoretical and practical issues, as well as exposure to opportunities for service and employment.

**GEY 3601 Physical Changes and Aging (3) BC GEY**
A survey of normal and pathological physical changes occurring from middle age through older age. Course emphasis will be on basic age-related changes and their implications for behavior in older age.

**GEY 3625 Sociological Aspects of Aging SS AP CASB (3) BC GEY**
Consideration of human aging in a broad sociocultural context. Course emphasis will be on historical, philosophical, and demographic aspects of aging, theories of social gerontology, attitudes toward aging and the aged, and cross-cultural perspective.

**GEY 4101 Aging in Special Populations (3) BC GEY**
This course explores how special populations (centenarians; the severely mentally ill, homeless older adults; LGBT older adults; older adults with HIV/AIDS; and older offenders) age differently with specific attention paid to their health care needs.

**GEY 4102 Aging in Modern Literature and Film (3) BC GEY**
This class focuses on late 20th century and early 21st century literature and film to explore gender, ethnicity, creativity, social class, caregiving, and many other critical aging issues. Not restricted to majors.

**GEY 4231 Elder Abuse and Neglect (3) BC GEY**
The purpose of this class is to provide students with a basic understanding of the problem of elder abuse and neglect found within the community and in congregate facilities. Interdisciplinary approaches to intervention are emphasized.

**GEY 4322 Gerontological Case Management (3) BC GEY**
This course examines the role and function of case management in meeting the care needs of the older adult. All aspects of case management practice are covered, including the elements of the case management process as well as ethical and legal issues.

**GEY 4360 Gerontological Counseling (3) BC GEY**
An introduction to the study of the major mental health problems of the elderly. Current approaches to counseling the elderly in community and institutional settings are discussed.

**GEY 4401 Research Methods in Gerontology (3) BC GEY**
PR: STA 2122 or equivalent with a grade of C or better. Restricted to Gerontology majors, others by departmental permission. Methods and techniques of social research in gerontology. Design of gerontological studies, collection and analysis of data, interpretation of results, and preparation of reports.

**GEY 4475 Program Evaluation in an Aging Society (3) BC GEY**
Students develop knowledge of the purposes of evaluation research and the approaches and methodologies necessary to evaluate aging services programs and organizations.

**GEY 4507 Understanding Policies and Practices of Long Term Care HP SS MW CPST (3) BC GEY**
PR: GEY 2000. This course provides principles for managing disability in a variety of settings. Topics include historical context, experience of disability, and challenges of providing care for disabled persons. Course is repeatable and not restricted to GEY majors.

**GEY 4508 Health Care Operations AP HP SS MW (3) BC GEY**
PR: GEY 4507, ACG 2021, each with a grade of C or better. This course addresses the health care operations of long-term care facilities. This course is for students in the BS in long-term care administration, but not limited to GEY majors. The course is repeatable for credit.

**GEY 4509 Regulatory and Clinical Operations (3) BC GEY**
PR: GEY 4508, ACG 2021, each with a grade of C or better. This course will familiarize the student with the basic aspects of nursing home administration through the practical application of management theory and concepts. The course is not repeatable and not restricted to GEY majors.
GEY 4520 Legal Aspects of Health Care Administration (3) BC GEY
This web-based course presents an overview of the legal issues facing the health care industry and provides special emphasis on long-term care settings. It provides students with a basic working knowledge of legal system and court processes.

GEY 4608 Alzheimer's Disease Management (3) BC GEY
PR: GEY 2000 or GEY 3326. This course will provide instruction on effective approaches for providing care to persons with Alzheimer’s Disease and related disorders in residential and home care settings. The major dementing disorders and typical behaviors presented by patients are presented along with strategies for successful behavior management. Building a dementia program and building dementia care teams are also covered.

GEY 4612 Psychology of Aging SS CASB (3) BC GEY
A comprehensive overview of psychological aspects of aging. Topics will include age-related changes in sensation/perception, cognition, and personality, as well as application to late-life psychopathology.

GEY 4628 Race, Ethnicity and Aging SS (3) BC GEY
This course addresses how people of different ethnic and racial groups age, in the physical, psychological, and social context. Topics include cultural competence and sensitivity. Not restricted; not repeatable.

GEY 4629 Women and Aging (3) BC GEY
Because of longer life expectancy and other factors, women make up a disproportionate share of older adults in the United States. This course examines older women from a feminist perspective, is open to all majors, and is not repeatable for credit.

GEY 4635 Business Management in an Aging Society MW CPST (3) BC GEY
This course provides students with an interdisciplinary perspective that addresses both business management and the impact of our aging society on business.

GEY 4641 Death and Dying SS CASB (3) BC GEY
A broad overview of the basic concepts and psychosocial issues relating to the meaning of loss and death, the process of death, and the experience of grieving. Health care practices are considered along with community resources.

GEY 4647 Ethical and Legal Issues of Aging SS MW CPST (3) BC GEY
A consideration of the major ethical and legal issues in aging and their implications for policies, priorities, and services.

GEY 4690 Senior Seminar in Gerontology (3) BC GEY
In this senior level capstone course, students discuss important scientific and professional issues in the field of gerontology, integrating work from prior courses, and practicing professional skills. Restricted to majors. Not repeatable for credit.

GEY 4900 Directed Readings (1-3) BC GEY
PR: CI. A reading program with topics in gerontology conducted under the supervision of a faculty member.

GEY 4917 Directed Research (1-4) BC GEY
This course will provide Undergraduate Students with an opportunity to engage in an agreed upon research project under the supervision of a professor. The course is open to any major and is repeatable for credit.

GEY 4935 Special Topics in Gerontology (3) BC GEY
Courses on topics such as preretirement, mental health, human services organization, nursing home administration, the older woman, and elder abuse will be offered.

GEY 4945 Field Placement (1-9) BC GEY
PR: CI. Subject to availability of internship sites approved by the School of Aging Studies. Internship in an agency or community setting. A full-time assignment to an agency or organization, engaged in planning or administering programs for older people if in the BA program (6 hours), or to a nursing home if in the BS program (9 hours).

GEY 5476 Program Evaluation in an Aging Society (3) BC GEY
Students develop knowledge of the purposes of evaluation research and the approaches and methodologies necessary to evaluation aging services programs and organizations.

GEY 5501 Health Care Operations in Long Term Care (3) BC GEY
Addresses the health care operations of long term care facilities with a special emphasis on nursing homes and assisted living facilities. Specifics include leadership management of people resources physical plant and quality improvement.

GEY 5620 Sociological Aspects Of Aging (3) BC GEY
Examines, within a sociological frame of reference, the interrelationships between the aged (or aging) and the structure and function of the social system and its major institutionalized subsystems.

GEY 5630 Economics and Aging (3) BC GEY
Examines basic economic systems as they impact the aged. Emphasis is on applied aspects of economic planning, pensions, insurance, social security and other support systems.

GEY 5642 Perspectives on Death and Dying (3) BC GEY
Study of the various psychological, medical, legal, and religious problems caused by dying and death, and how individuals and groups have responded in the past and present.

GIS 2010C Map Interpretation (3) AS GPY
Analysis and synthesis of various types of maps and map projections.

GIS 3006 Computer Cartography (3) AS GPY
An introduction to the concepts underlying modern, computer-based mapping and to the collection and storage of digital spatial data.
This page from the University of South Florida 2013-2014 Undergraduate Catalog contains course descriptions. The page lists multiple courses and provides details about each course, including course codes, titles, credit hours, prerequisites, and descriptions. Here are some highlights:

- **GIS 4035C Remote Sensing of the Environment (3) AS GPY**
  - PR: GIS 3006 and GEO 3164C, or CI. Analysis of satellite images and aerial photographs for studies of the environment.

- **GIS 4043C Geographic Information Systems (3) AS GPY**
  - PR: GIS 3006 and GEO 3164C, or CI. An introduction to the concepts underlying Geographical Information Systems, with an emphasis on analytical capabilities of such systems in both raster and vector domains.

- **GIS 4300 Environmental Modeling with GIS (4) AP**
  - PR: [GIS 4043C; UG,GR,ND; C] OR [GIS 5049; UG,GR,ND; C]. Examine use of geographic information systems (GIS) for environmental modeling; provide students with an overview of applications of GIS to computer-based spatial models using spatial analytic and modeling tools/applications intrinsic to GIS.

- **GIS 5049 GIS for Non-Majors (3) AS GPY**
  - An introduction to the concepts underlying digital thematic mapping and geographical information systems (GIS) for non-geography majors and non-geography graduate students.

- **GIS 5075 Global Positioning Systems (3) AS GPY**
  - PR: GIS 5049: GIS for Non-Majors or permission from the instructor. Examination of the theory, operation, and application of Global Positioning Systems (GPS).

- **GLY 2000 Earth and Environmental Systems NS (3) AS GLY**
  - May substitute for GLY 2010 for geology majors. This course examines the geology of the earth and the environment, using an earth systems approach that looks at interactions between the lithosphere, hydrosphere, atmosphere, and biosphere. Students will learn general principles of geology, travel world-wide on the internet, and participate in discussions on topics ranging from the scientific method to the latest geologic discoveries. Open University course; taught via internet and TV. Open University course; taught via internet and TV.

- **GLY 2000L Essentials of Geology Laboratory (1) AS GLY**
  - Fundamental concepts and skills of modern geology, including rock and mineral identification, analysis of geologic maps, field analysis, and applications of computers in Geology. Required field trip.

- **GLY 2010 Dynamic Earth: Introduction to Physical Geology NS CANP (3) AS GLY**
  - A first course in geology emphasizing the Earth's composition, structure, and dynamics. Lectures/activities include but are not limited to plate tectonics, earthquakes, volcanism, glaciation, global warming, shorelines, and natural resources.

- **GLY 2030 Hazards of the Earth's Surface: Environmental Geology NS CANP (3) AS GLY**
  - A first course in geology emphasizing catastrophic events that cause damage to humans and their possessions. Lectures and recitation activities on geologic hazards, tools geologists use to study them, and measures that can be taken to minimize them.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
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<tbody>
<tr>
<td>GLY 3552C</td>
<td>Sedimentary Record 1: Sedimentary Processes and Petrology (4) AS GLY</td>
<td>PR: GLY 2000L, CHM 2045, MAC 2281. CR: GLY 3311C. A lecture and laboratory class that discusses sedimentary processes, formation and classification of sedimentary rock, and the sedimentary rock record. Examination of the rock record to solve problems in sedimentary geology.</td>
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<td>S/U for geology majors; S/U available for others.</td>
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<tr>
<td>GLY 3720C</td>
<td>The Fluid Earth (4) AS GLY</td>
<td>PR: GLY 2000L; MAC 2311 and MAC 2312 or equivalent; CHM 2045 and CHM 2046; PHY 2048 and PHY 2048L. Physical, chemical and biological processes affecting fluids of the lithosphere, oceans and atmosphere. Water as a geologic medium and global entity. A systems approach. Not available as S/U for geology majors; S/U available for others.</td>
</tr>
<tr>
<td>GLY 3850</td>
<td>Geology For Engineers (3) AS GLY</td>
<td>PR: Junior standing in College of Engineering or CI. No credit toward the geology major, or for those with credit for GLY 2010. An examination of geologic materials and processes designed for engineering students; classification and properties of earth materials, surface processes, site investigation techniques, applications of geology to the solution of engineering problems.</td>
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<tr>
<td>GLY 4045</td>
<td>Moons, Planets, and Meteors: An Introduction to Planetary Science MW (3) AS GLY</td>
<td>PR: Junior standing, Solar System exploration, from Aristotle to NASA. Modern views on the origins of meteorites, the Moon, Mars, Venus, and other planetary bodies, and the methods of planetary study. Meteor impacts, their effects, future hazard. Space science as a tool in the study of the Earth. Field trips, lectures, Internet exercises.</td>
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<tr>
<td>GLY 4053</td>
<td>Theories and Arguments about the Earth MW (3) AS GLY</td>
<td>PR: 2000 level geology course. History of thinking about the Earth: context - geologic controversies; emphasis - geologic reasoning.</td>
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<tr>
<td>GLY 4104C</td>
<td>Sedimentary Record 3: Paleontology and Earth Evolution (4) AS GLY</td>
<td>PR: GLY 2000L, GLY 3552C, BSC 2010. The study of &quot;deep time&quot;, including how it is measured, how it is correlated over the Earth's surface, and how important physical, biologic, and chemical geologic processes have varied with time. Lec.-Lab.</td>
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<tr>
<td>GLY 4310</td>
<td>Petrology (4) AS GLY</td>
<td>PR: At least one course in Geology with lab.  Course is open to anyone with at least one course in geology with lab. Course is not available on an S/U basis for geology majors; it is for other majors.</td>
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<tr>
<td>GLY 4324C</td>
<td>Physical Volcanology (4) AS GLY</td>
<td>PR: GLY 3311C, MAC 2241 or MAC 2311 or MAC 2281. Physical volcanology explores the nature of volcanism on Earth and nearby planets. Topics in magma production and ascent, eruption dynamics, volcanic hazards, and volcano monitoring will be covered in lecture, laboratory, and independent exercises.</td>
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<tr>
<td>GLY 4462</td>
<td>Geomechanics (4) AS GLY</td>
<td>PR: GLY 2010 or equivalent, PHY 2048 and 2049 or equivalent. Co-PR: GLY 3402C (or an equivalent structural geology course). Overview of the mechanical behavior of earth materials including general theory, an introduction to soil mechanics, and introduction to rock mechanics. Includes two field trips to observe geomechanical issues in Florida and modern methods of rock testing.</td>
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<tr>
<td>GLY 4480</td>
<td>Seismology (4) AS GLY</td>
<td>PR: At least one course in Geology with lab. Principles of weathering, erosion, production, and transport of sediment on the earth's surface, and the resulting geomorphology. Modern sedimentary environments and the process-response systems that govern them. Course is open to anyone with at least one course in geology with lab. Course is not available on an S/U basis for geology majors; it is for other majors.</td>
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<tr>
<td>GLY 4734</td>
<td>Beaches and Coastal Environments MW (3) AS GLY</td>
<td>A comprehensive introduction to the nature of all coastal environments including beaches, dunes, tidal inlets, estuaries, reefs, and river deltas. Emphasis will be on the natural state of these environments and how human activities have and will impact them. Consideration of coastal management policies involving economics, ethics, policy, and environmental law.</td>
</tr>
<tr>
<td>GLY 4780</td>
<td>Geological Field Studies (1-3) AS GLY</td>
<td>PR: 1 geology course. Lectures and field trip to study modern geologic systems and/or geologic origins of specific regions. Mapping and field description techniques introduced. Topic/destination of trip varies. Trip requires camping and vigorous physical activity. Lec. Field trip.</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG

GLY 4905 Independent Study (1-3) AS GLY
PR: CI. S/U only. Specialized independent study determined by the student's needs and interests.

GLY 4915 Undergraduate Research (1-3) AS GLY
PR: Senior or advanced junior standing and written permission of department prior to registration. S/U only. Individual experimental investigations with faculty supervision.

GLY 4920 Geology Colloquium (1) AS GLY
PR: Senior standing in Geology. S/U only. Weekly topical lectures by faculty, graduate students and invited speakers.

GLY 4921 Scientific Communication 6A WRIN (3) AS GLY
A writing-intensive FKL capstone course designed to develop students' skills in communicating scientific ideas through the written word, spoken word, and through graphical displays of information (graphs, diagrams).

GLY 4930 Selected Topics in Geology (1-4) AS GLY
Each topic is a course under the direction of a faculty member with the content depending on the interests of the students and faculty involved. All areas of geology included.

GLY 4946L Practical and Applied Geology: Teaching Experience (1) AS GLY
PR: Junior standing, declared Geology major, and at least 12 credit hours of Geology courses, or CI. CR: Enrollment in other Practical/Applied sections. Completion of Geology supporting course sequence highly recommended. Hands-on course designed to give students experience in teaching geology. Topics vary widely, with several different offerings each semester. May be repeated for credit.

GLY 4947L Practical and Applied Geology: Laboratory Experience (1) AS GLY
PR: Junior standing, declared Geology major, and at least 12 credit hours of Geology courses, or CI. CR: Enrollment in other Practical/Applied sections. Completion of Geology supporting course sequence highly recommended. Hands-on course designed to teach the basic laboratory skills of a practicing geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.

GLY 4948L Practical and Applied Geology: Field Experience (1) AS GLY
PR: Junior standing, declared Geology major, and at least 12 credit hours of Geology courses, or CI. CR: Enrollment in other Practical/Applied sections. Completion of Geology supporting course sequence highly recommended. Hands-on course designed to teach the basic skills of a practicing field geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.

GLY 4949L Practical and Applied Geology: Computational Experience (1) AS GLY
PR: Junior standing, declared Geology major, and at least 12 credit hours of Geology courses, or CI. CR: Enrollment in other Practical/Applied sections. Completion of Geology supporting course sequence highly recommended. Hands-on course designed to teach the basic computational skills of a practicing geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.

GLY 5752 Geological Field Excursion (2) AS GLY
PR: Senior standing in geology or CI. Lectures and 2-3 week field excursion to study regional geology, structure and lithogenesis of geologically complex terrain. Mapping and outcrop description techniques are emphasized. Destination of trip varies. Trip requires camping and vigorous physical activity. Lec.-field trip.

GLY 5865 Statistical Models in Geology (3) AS GLY
PR: STA 2023 or equivalent or CI. Application of statistical methods to geological problems. Emphasis on sampling plans, nature of geologic distributions, and application of analyses of variance to solving geological problems. Lec.

GRE 1120 Beginning Classical Greek I (4) AS WLE
An introductory course in classical Greek grammar with appropriate readings.

GRE 1121 Beginning Classical Greek II (4) AS WLE
PR: GRE 1120 or equivalent. An introductory course in classical Greek grammar with appropriate readings.

GRE 2140 New Testament Greek I (3) AS REL

GRE 2141 New Testament Greek II (3) AS REL

GRE 2220 Intermediate Classical Greek (4) AS WLE
PR: GRE 1121 or equivalent. Readings in Greek at an intermediate level.

GRK 1120 Beginning Modern Greek I (4) AS WLE
CR: GRK 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

GRK 1120L Beginning Modern Greek I Laboratory (1) AS WLE
CR: GRK 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

GRK 1121 Modern Greek II (4) AS WLE
PR: GRK 1120 or its equivalent; CR: GRK 1121L. A continuation of GRK 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

GRK 1121L Modern Greek II Laboratory (1) AS WLE
COURSE DESCRIPTIONS

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CR: GRK 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

GRK 2220 Modern Greek III (4) AS WLE
PR: GRK 1121 or the equivalent. For language students who intend to attain basic proficiency.

GRK 2221 Modern Greek IV (4) AS WLE
PR: GRK 2220 or its equivalent. Continuation of GRK 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

GRK 4905 Directed Study (1-5) AS WLE
Departmental approval required. S/U only. Permits study options in Modern Greek not available in the regularly scheduled curriculum at departmental discretion.

GRW 3502 Survey of Greek Literature: Plato's Republic (3) AS WLE
PR: GRE 2200 or equivalent. Plato’s Republic introduces students to Plato in the original Classical Greek language, providing the necessary transition from the Beginning and Intermediate courses to an Advanced level of proficiency in ancient Greek.

GRW 4905 Directed Reading (1-4) AS WLE
Departmental approval required.

GRW 5905 Directed Reading (1-4) AS WLE
Departmental approval required.

GRW 5934 Selected Topics (1-4) AS WLE
Available to majors and non-majors. Study of an author, movement or theme.

HBR 1120 Modern Hebrew I (4) AS WLE
CR: HBR 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

HBR 1120L Modern Hebrew I Laboratory (1) AS WLE
CR: HBR 1120L. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

HBR 1121 Modern Hebrew II (4) AS WLE
PR: HBR 1120 or its equivalent; CR: HBR 1121L. A continuation of HBR 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

HBR 1121L Modern Hebrew II Laboratory (1) AS WLE
CR: HBR 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

HBR 2220 Modern Hebrew III (4) AS WLE
PR: HBR 1121 or the equivalent. For language students who intend to attain basic proficiency.

HBR 4905 Directed Study (1-5) AS WLE
Departmental approval required. S/U only. Permits study options in Modern Hebrew not available in the regularly scheduled curriculum at departmental discretion.

HIS 2931 Special Topics (2-4) AS HTY
This course emphasizes a selected historical problem or issue. A variety of instructional approaches will be taken, and topics may vary.

HIS 3308 War and Society MW (3) AS HTY
An examination of the ways in which societies have organized themselves for war and how societies are changed by war. Also explores gendered expectations in war, and the changing conduct of war. Does not count for History major or minor credit.

HIS 3930 Special Topics (2-4) AS HTY
This course is designed to emphasize a selected historical problem or issue that is meaningful and challenging to the student. A variety of instructional approaches will be taken to the material. Topics will be changed each semester.

HIS 3938 Major Issues in History MW CPST HHCP (3) AS HTY
This course is an interdisciplinary examination of the historical relationship between (broadly) Asia and the West. It offers non-historians the opportunity to understand the dynamic between past and its interpretation.

HIS 4104 Theory of History (3) AS HTY
PR: History major status and 2.25 HTY major GPA required. An analysis of the foundations of historical knowledge and historical methodology. Includes a survey of historical thinking and writing from ancient times to the present.

HIS 4900 Directed Reading (1-4) AS HTY
PR: CI. Arrangement with instructor prior to registration. Readings in special topics.

HIS 4920 Colloquium in History (2-4) AS HTY
Reading and discussion of selected topics in the various fields of history. The subject and scope of inquiry will be determined by the instructor for each section.

HIS 4936 Pro-Seminar in History 6A MW CPST HHCP (4) AS HTY
PR: History major status and 2.25 HTY major GPA required. Advanced topics in the various fields of history. Emphasis on discussion of assigned readings and on research and writing of a major paper.

HIS 4940 Internship in History (1-4) AP HTY
PR: History majors only. Supervised field experience in a research and writing-related position that relates to the History major. Possible internship sites include historical societies and museums. Restricted to majors. Repeatable for 6 total credits.

HLP 2081 Personal Wellness: A Lifetime Commitment (3) ED EDJ
An examination of the bases for adopting a positive health lifestyle with a major emphasis on diet, weight management, physical fitness, stress
management, and substance-abuse management.

HLP 4710 Creative Exp in Art, Music, Drama & Physical Movement (2) EP EDU
Teacher candidates integrate Music, Art, Movement, Physical Education, and Health in elementary curriculum because of the importance of these content areas for children to learn to care for themselves physically, emotionally and aesthetically.

HLP 4722 Health and Physical Education for the Child (2) ED EDE
The course helps elementary education majors understand the health, and developmental needs of K-6 children and to learn the role of the classroom teacher in providing health services, healthy environments, and health & physical ed. instruction.

HSC 3170 Healthcare Finance (3) BP FIN
This course seeks to broaden and deepen understanding of the issues involved in the financial activities of the healthcare industry. Emphasis is given to the principles and applications of healthcare finance important to entry-level managers.

HSC 2000 Introduction to Health Professions (3) AS BCM
This course will introduce students to the US healthcare system and provide an overview of the various careers available within that system.

HSC 2017 Careers in Public Health (3) PH PHC
Course provides students with an overview of public health occupations. After students complete self-assessments tools, the information is applied to personal interests and career goals. Guest speakers offer advice related to employment availability.

HSC 2100 Contemporary Health Science SS CASB (3) PH CFH
A comprehensive approach is used to educate students on how to critically research, understand, evaluate, and apply information and data related to the basic principles of emotional, intellectual, physical, social, occupational and spiritual health.

HSC 2130 Sex, Health, and Decision-Making SS CASB (3) PH CFH
This course explores the fundamental relationship between sexuality, decision making and health outcomes from a public health perspective. Students explore sexuality issues and learn tools that promote sexual health and healthy relationships.

HSC 2400 First Aid (2) ED EDP
Meets the American Red Cross certification requirements in standard and advanced first aid.

HSC 2933 Selected Topics in Public Health (1-6) PH PHC
Overview of major public health and health related issues of interest to undergraduates. Course explores a variety of health topics that are related to improving the health and health behaviors of individuals, groups and communities. Specific topics may vary each semester. No prerequisites.

HSC 4430 Occupational Health and Safety (3) PH EOH
This course provides a review of occupational health and safety. Regulatory guidance and compliance, and the underlying science that drives occupational safety regulations are covered. The roles of various health and safety professionals are explored.
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department(s)</th>
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<tbody>
<tr>
<td>HSC 4504</td>
<td>Foundations of Immunology NS (3) PH PHC</td>
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<tr>
<td>HSC 4537</td>
<td>Medical Terminology (3) PH PHC</td>
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<tr>
<td>HSC 4551</td>
<td>Survey of Human Diseases (3) PH PHC</td>
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<td>HSC 4573</td>
<td>Foundations of Food Safety (3) PH PHC</td>
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<td>HSC 4579</td>
<td>Foundations of Maternal and Child Health (3) PH PHC</td>
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<td>HSC 4624</td>
<td>Foundations of Global Health (3) PH PHC</td>
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<td>HSC 4630</td>
<td>Understanding U.S. Health Care (3) PH PHC</td>
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<td>HSC 4631</td>
<td>Critical Issues in Public Health 6A CPST (3) PH PHC</td>
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<td>HSC 4933</td>
<td>Special Topics in Public Health (1-6) PH PHC</td>
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<td>HSC 5036</td>
<td>Professional Foundations of Health Education (1) PH CFH</td>
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<tr>
<td>HUM 1020</td>
<td>The Arts FA CAFA (3) AS HCS</td>
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<tr>
<td>HUM 2210</td>
<td>Studies in Culture: The Classical Through Medieval Periods HP CAHU HHCP (3) AS HCS</td>
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<td>HUM 2230</td>
<td>European Humanities: Renaissance - 20th Century HP CAHU HHCP (3) AS HCS</td>
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<tr>
<td>HUM 2271</td>
<td>Eastern and Western Culture from Antiquity to 1400 AP (3) AS HCS</td>
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<td>HUM 2273</td>
<td>Eastern and Western Culture Since 1400 AP CAGC (3) AS HCS</td>
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<td>HUM 2466</td>
<td>Modern Latin America Cultures (3) AS HCS</td>
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<td>HUM 2522</td>
<td>Introduction to the Cultural Study of Popular Music CAHU (3) AS HCS</td>
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<tr>
<td>HUM 2930</td>
<td>Selected Topics (1-4) AS HCS</td>
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</tbody>
</table>

This course provides an overview of the principles of Immunology and an introduction to the applications of immunology and immunologic techniques used in the surveillance, prevention and control of diseases of public health importance.

This course provides a unique educational program to improve the student's medical vocabulary. The course includes medical and scientific content information, which students encounter in other health professional courses. Not restricted to any major.

An overview of the nature, types, and mechanisms of diseases of the major body systems.

This course provides an overview of food safety practices and principles emphasizing the role of food safety in public health. Topics include proper food handling procedures, food safety hazards, food-borne illness prevention, and food safety regulations.

This course provides an overview of maternal and child health issues and trends. With this primary aim, the objectives are organized around the knowledge of health assessment and interventions for families and children.

This course introduces students to the principles of public health from a global perspective. Emphasis will be placed on the impact of social, economic, political and environmental factors that influence health and access to health care across the globe.

An introduction to health services; providing an overview of important components of the U.S. health care system, health policy, funding sources, and comparisons with other developed nations.

This course provides students the opportunity to learn about the multiple ways to view controversial topics in public health. The course covers topics including biomedical issues, social & behavioral factors related to health, and environmental issues.

Analyses of selected works of literature, music, film, and visual art, representing artists of diverse periods, cultures, genders, and races. Especially recommended for students who later take 4000-level Humanities courses.

A survey of literature and the arts of ancient Greece, Rome, and medieval Europe. Issues to be examined may include the dialogue between local traditions and cosmopolitan cultures, the relationship of the individual to society, and the bases for moral values.

Students will be exposed to the creative expressions and cultural products of Western European societies in order not only to determine the past's values, beliefs, and concerns, but also to enrich our own spirits, imaginations, and intellects.

A comparative treatment of music, visual arts, theatre, literature, and philosophy in the East and West, proceeding chronologically from Ancient times through the Middle Ages, emphasizing Europe and India.

This course examines the different ways Westerners have viewed, understood, and made sense of Asia since the 15th-century.

An overview of the cultural heritage of Latin America since the time of independence. Verbal and visual texts will be used to study the difficult struggle to create a cultural identity that incorporates African, indigenous, and European traditions.

Variable topic. An interdisciplinary examination of popular music traditions as they affect race, class, and gender, and interact with commerce, technology, and politics. Students will combine critical listening with history and cultural analysis.

An introductory course dealing with a recurrent theme in the arts or focusing on a particular artistic center (a nation or city at a particular time).
<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>HUM 3211</td>
<td>The Renaissance (3) AS HCS</td>
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<tr>
<td>HUM 3237</td>
<td>The Seventeenth Century (3) AS HCS</td>
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<tr>
<td>HUM 3240</td>
<td>The Early Middle Ages: Early Christian Cultures (3) AS HCS</td>
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<tr>
<td>HUM 3241</td>
<td>Central Medieval and Gothic Europe (3) AS HCS</td>
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<tr>
<td>HUM 3242</td>
<td>The Enlightenment (3) AS HCS</td>
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<tr>
<td>HUM 3244</td>
<td>Nineteenth Century European Culture (3) AS HCS</td>
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<tr>
<td>HUM 3407</td>
<td>Ancient Near East Cultures (3) AS HCS</td>
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<tr>
<td>HUM 3457</td>
<td>Nineteenth Century American Arts and Letters (3) AS HCS</td>
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</tbody>
</table>

Junior/Senior Level Standing. An examination of the arts of the Renaissance, focusing on primary texts and images. Themes include humanism, the revival of antiquity, the concept of the individual, the Reformation and Counter-Reformation, and the impact of New World explorations.

An examination of the development of the art and culture of the Baroque Period, roughly the 17th Century, focusing on primary texts and images. Themes will include mysticism, sensuality, rationalism, science, absolutism, and liberty.

This course examines early Christianity as a religious, social and cultural phenomenon. Topics include new literary and artistic forms; religious conversion; and Christian ideals of martyrdom, virginity, monasticism, and sainthood.

By studying texts and artifacts, this course examines the diverse cultures of Europe from the eleventh to fourteenth centuries. A central issue covered will be the efforts of the church to create an all-encompassing Christian culture.

By studying late seventeenth and eighteenth century literature, music, visual art, and philosophy, this course examines phenomena such as rationalism, classification systems, the influence of science, utilitarianism, reform, and secularism.

Focuses on relationships between geographical location and cultural dynamics. Emphases include the roles of natural environments, core-periphery relations, and local identities in the development of cultural practices. Topic varies. Repeatable to 6 cr.

An interdisciplinary examination of cultural texts as responding to social and political issues of the day. Topic varies. Repeatable to 6 cr.

Courses offered under this number will always be interdisciplinary, treating more than one art media and relating them historically or in some other way. The interdisciplinary emphasis on literature and the arts, placing them in some larger context of culture or ideas, distinguished HUM courses from related courses offered in other departments of the university. Topics will vary; course may be repeated for credit with change of content.

Focuses on relationships between a particular historical period and the cultural forms characteristic of it. An interdisciplinary examination of cultural texts as responding to social and political issues of the day. Topic varies. Repeatable to 6 cr.

A course emphasizing the analysis of primary works in relation to cultural contexts, the integration of secondary sources, and the construction of a written argument. Not restricted to majors. Offered only in fall semester.

Focuses on relationships between geographical location and cultural dynamics. Emphases include the roles of natural environments, core-periphery relations, and local identities in the development of cultural practices. Topic varies. Repeatable to 6 cr.

An overview of Pre-Columbian and Colonial Latin American culture through 1700. Topics include literature, music, and art; ethnic diversity; political and religious tension; "high" versus "low" culture; and the clash of European and American cultures.

An overview of Pre-Columbian and Colonial Latin American culture through 1700. Topics include literature, music, and art; ethnic diversity; political and religious tension; "high" versus "low" culture; and the clash of European and American cultures.

A course designed to introduce students to the ideas and skills needed for doing scholarly work in interdisciplinary cultural studies. An overview of central critical discussions including gender studies, postcolonialism, class and power relationships, and technology and media.

An overview of Pre-Columbian and Colonial Latin American culture through 1700. Topics include literature, music, and art; ethnic diversity; political and religious tension; "high" versus "low" culture; and the clash of European and American cultures.

An introduction to the ideas and skills needed for doing scholarly work in interdisciplinary cultural studies. An overview of central critical discussions including gender studies, postcolonialism, class and power relationships, and technology and media.
authors as Homer, Sophocles, and Plato, and monuments such as the Parthenon.

**HUM 4452 Nineteenth Century American Culture** (3) AS HCS
PR: Junior standing and HUM 2210 or HUM 2230, or CI. Study of selected works of art, tracing the course of American expansionism in civilization, and the interaction between the arts and the sciences in American ways of life and work, 1790-1890.

**HUM 4462 Pre-Columbian and Colonial Latin American Culture** (3) AS HCS
PR: Junior standing and HUM 2210 or HUM 2230, or CI. Analysis of selected Latin American works of art in their cultural context, with emphasis on the Pre-Columbian and Colonial periods. The course will focus on a particular historical, geographical, or thematic topic within those periods.

**HUM 4464 Modern Latin American Culture** (3) AS HCS
Junior/Senior Level Standing. Analysis of selected Latin American works of art in their cultural context, with emphasis on the period since the time of independence. The course will focus on a particular historical, geographical, or thematic topic within that period.

**HUM 4581 Film and Media Theory** (3) AS HCS
PR: HUM 3583 or HUM 3584. This advanced introduction to film and media theory offers students sophisticated tools for thinking critically and creatively about motion pictures and the psychological, cultural, political, and historical meanings they engender.

**HUM 4582 Film Auteurs** (3) AS HCS
Surveys the contributions to American culture of major films from the perspectives of genres and styles, critical methodologies and theories. Variable topics such as: region, subject, or period of time. Repeatable up to 9 credit hours with change of topic.

**HUM 4824 Issues in Cultural Theory** (3) AS HCS
Focuses on a critical issue in cultural theory. Students will delve into an issue central to cultural study and develop their ability to apply cultural theory to the analysis of cultural forms. Topic varies. Repeatable up to 6 hours with change of topic.

**HUM 4825 Identity and Power** (3) AS HCS
Focuses on the relationships between social power and individual or group identity. Emphasizes how discourses on race, class, gender, and/or nationality construct individual subjectivity and imagined communities. Topic varies. Repeatable to 6 credits.

**HUM 4890 Genres and Media** (3) AS HCS
This course focuses on a particular aesthetic genre or media. Emphasis is on close readings of the media or genre in question, and on how media or generic paradigms shape ideas and identities.

**HUM 4905 Directed Study** (1-4) AS HCS
PR: CI. Specialized individual study determined by the student's needs and interests.

**HUM 4930 Selected Topics in Humanities** (1-4) AS HCS
This course will deal with a recurrent theme in the arts as, for example, love or death, or will focus on artistic centers such as Renaissance Florence or Paris in the 1920s. Topics will vary.

**HUM 4931 Seminar in Humanities** 6A, CPST, WRIN (3) AS HCS
PR: HUM 3331 or CI. Senior status required. Seminar focuses on the writing of a substantial research paper in the humanities. Topic varies. Offered only in spring semester.

**HUM 4938 Major Issues in the Humanities** MW CPST (3) AS HCS
The study of an important topical issue in the Humanities. Materials representing diverse views relating to that issue will be read, and works of art in different media that have relevance to the debate will be studied. Available to majors and non-majors.

**HUM 4940 Internship in Humanities** (1-2) AS HCS
A structured, out-of-class learning experience providing firsthand, practical training in Humanities-related professional careers in the community. Restricted to Humanities majors. Repeatable up to 4 credit hours.

**HUM 4941 Study on Location** (1-4) AS HCS
PR: Repeatable once for up to eight credits. The art of a culture will be examined during travel in groups, led by an instructor, to important cities or sites. Monuments, museums, architecture, plays, and/or concerts will be studied. Reading assignments and lectures. Not restricted.

**HUN 2201 Nutrition** (3) NR NUR
PR: Course work in chemistry and biology or permission of faculty. Open to majors and non-majors. The study of fundamental principles of nutrition as they relate to human life and growth from conception through senescence, interpretation of current nutrition information, and application of nutrition knowledge in the establishment of good eating habits.

**HUN 3126 Food and Culture** (3) PH CFH
PR: HUN 2201 Exploration of the role of cultural diversity in formation of food habits with focus on changes in U.S. dietary patterns related to global cultural plurality. Course is not restricted to majors. The course is not repeatable.

**HUN 3272 Sports Nutrition** (3) PH CFH
PR: HUN 2201 This course explores nutrition in the enhancement of health and fitness. Discussion includes the nutrient requirements for attainment and maintenance of health, disease prevention and sports performance. The course is not restricted to majors and it is not repeatable for credit.

**HUN 3296 Nutrition and Disease** (3) PH CFH
PR: HUN 2201 A nutrition course for those wishing to increase their nutrition knowledge in the areas of health care, diet and disease, and therapeutic nutrition. The course is not restricted to majors and is not repeatable for credit.
### COURSE DESCRIPTIONS

**HUN 3403 Nutrition through the Life Cycle (3)** PH CFH  
**PR:** HUN 2201 Nutritional needs and concerns throughout stages of the life cycle including pregnancy and lactation, infancy, adolescence, adulthood, and aging; socioeconomic, cultural and psychological influences on food and nutrition behavior.

**HUN 3601 Nutrition Education & Counseling (3)** PH CFH  
**PR:** HUN 2201 A nutrition course for those wishing to increase their nutrition knowledge in the areas of health care, diet and disease, and therapeutic nutrition. The course is not restricted to majors and is not repeatable for credit.

**HUN 3932 Selected Topics in Nutrition (3)** PH CFH  
The content of this course will be determined by student demand and instructor interest. Repeatable up to 3 times with different topics.

**IDH 2009 Honors Discovery: People, Processes and Problems (3)** HC HON  
**PR:** Admission to Honors College. An appreciation of the research process in multiple disciplines culminating in the production of a collaboratively developed research proposal.

**IDH 2010 Acquisition of Knowledge** CAHU HHCP (3) HC HON  
**PR:** Admission to Honors College. An appreciation of the problems of how human understanding proceeds through operations such as perception, classification, and inference, among others, as well as the open philosophical questions behind these operations.

**IDH 2930 Selected Topics (0-4)** HC HON  
**PR:** IDH 2010 or CI. This course is designed to emphasize a selected problem or issue that is meaningful and challenging to University Honors students and special populations. A variety of instructional approaches will be used. Topics will vary each semester. Repeatable for a total of 8 credits.

**IDH 3100 Arts/Humanities Honors** CAHU HHCP (1-3) HC HON  
**PR:** Admission to Honors College. An introduction to western arts and letters from the perspectives of three periods (classicism, romanticism, and modernism), the relationship of ideas to art, the similarities among the arts of a given period, and important differences between periods. Repeatable for a maximum of six hours.

**IDH 3350 Natural Sciences Honors** CANP (3) HC HON  
**PR:** Admission to Honors College. An exploration of current knowledge concerning fundamental principles in the Sciences, their potential for application and attendant ethical and philosophical questions. Honors College students only. Repeatable up to 6 hours.

**IDH 3400 Social and Behavioral Sciences Honors** CASB (3) HC HON  
**PR:** Admission to Honors College. Introduction to the concerns of the Social and Behavioral Sciences, methods of inquiry, discovery, and validation of knowledge. A survey of the way various disciplines examine the question of how society is organized. Repeatable for up to 6 credits with change of topic.

**IDH 3600 Seminar in Applied Ethics** CASB (3) HC HON  
**PR:** Admission to Honors College. This course explores ethical issues related to selected topics such as Ethics of Technology, Ethics in Business, Bio-Medical Ethics, Personal Ethics Development.

**IDH 4000 Honors Program Seminar: Major Works/Majors Issues (3)** HC HON  
**PR:** IDH 2010. This course explores major works and major issues in a variety of disciplines. Each section will be devoted to content in a different academic area.

**IDH 4200 Geographical Perspectives Honors** CAGC (3) HC HON  
**PR:** IDH 2010. An introduction to African, Latin American, Middle Eastern, or Asian perspectives focusing on social, political and economic, artistic, cultural and intellectual subject matter. The material will be presented within a geographical, chronological, and humanities background. Repeatable for up to 6 credits with change of topic.

**IDH 4910 Undergraduate Research (0-4)** HC HON  
**PR:** DPR. A supervised program of interdisciplinary research in areas of specific interest. Open to all USF students by application through the undergraduate research coordinator.

**IDH 4930 Selected Topics (1-4)** HC HON  
**PR:** IDH 2010 or CI. This course is designed to emphasize a selected problem or issue that is meaningful and challenging to University Honors students and special populations. A variety of instructional approaches will be used. Topics will vary each semester. Repeatable for a total of 8 credits.

**IDH 4950 Honors Project (1-4)** HC HON  
A program of independent research or study in areas of specific interest working under the supervision of a faculty mentor. Restricted to Honors College students.

**IDH 4970 Honors Thesis (3)** HC HON  
**PR:** Senior Honors Standing. The development and public presentation of a senior thesis under the direction of a mentor. Course is taken for 2 semesters. Repeatable for up to 6 credits with change of topic.

**IDH 5956 Honors Project CPST (3)** HC HON  
**PR:** Senior Status and permission of Honors College. Advanced Honors Project. Repeatable up to 12 hours.

**IDH 5975 Honors Thesis 6A WRIN (3)** HC HON  
**PR:** Senior Status and permission of Honors College. Advanced Honors Thesis. Repeatable up to 12 hours.

**IDS 1505 Introduction to Research in Beh. & Com. Sciences (1)** BC MHL  
Overview of research problems in behavioral & community sciences, research ethics, and the
IDS 2600 Applications of Research in Community Settings (1) BC MHL
Research in Community Settings introduces students to the principles of community-based participatory research and provides opportunities for students to observe and analyze the application of evidence-based practices in community settings.

IDS 2664 Social Science Perspectives I SS (3) AS IAS
Provides an overview of the evolution and global expansion of Western Civilization. Examines global problems of economic growth and development; geopolitical relations among nations and states, food supply and hunger, and environmental change.

IDS 2665 Social Science Perspectives II SS (3) AS IAS
Approaches the study of human behavior and society using the lens of various institutions. The course addresses issues of social stratification, economics, education, religion and social status. The course is not restricted to any major, has no lab section, and is not cross-listed.

IDS 2666 Historical Perspectives I HP (3) AS IAS
Approaches the study of human history through a series of specific case-studies that focus on historical processes. The primary focus of the course is to understand the variety of ways that the past has been brought into and understood in the present, rather than a comprehensive survey of a limited time or place.

IDS 2667 Historical Perspectives II HP (3) AS IAS
Approaches the study of human history through a series of specific exercises that focus on what historians do: produce histories. The primary focus of the course is to understand the variety of ways that the past can be emplotted in histories, rather than a comprehensive survey of a limited time or place. With this understanding, students will produce several of their own histories.

IDS 2912 Undergraduate Research Experience (0-4) US DEA
Learning objectives determined by faculty and aligned with students career aspirations and/or academic program. May be repeated a maximum of four times. This course is open to all majors.

IDS 2931 Selected Topics (1-5) AS IAS
Selected topics in liberal arts and sciences. A basic introduction to the substance and theory of contemporary topics in humanities, social science or natural science.

IDS 3115 Values and Choices 6A MW (3) ED EDF
An in-depth examination of values and their relationship to choices in contemporary society using historical perspective and inquiry of moral/ethical dilemmas. Available to majors or non-majors.

IDS 3186 Scientific and Ethical Dimensions of Human Disease MW (3) AS IAS
PR: DPR. An interdisciplinary perspective of the biological basis of human disease combined with critical thinking and medical ethics. Basic concepts of human disease are integrated with bioethical dimensions of patient choice, physician responsibility and current health care issues.

IDS 3662 Arts Connections FA (3) FA FAI
This is an interdisciplinary course to the arts disciplines of music, dance, theatre, and art. Artists from the four disciplines will provide weekly presentations centered around issues and ideas that have formed the basis of their creative research. Influences of diversity, new technologies and community and public arts will be explored. This course will introduce students to the role the arts play in shaping their perceptions of the world as well as reflecting the underlying values and paradigms that form our culture(s).

IDS 3668 Images of Contemporary Urban Culture 6A LW (3) AS IAS
Offers multiple perspectives on the vision, theories, and practices of contemporary urban culture through the use of various literary genres. Examines the cultural realities of contemporary urban life, such as social stratification, discontinuity, anonymity and poverty; as well as its many potentials such as creative energy, diversity, and relational networks. Must have enough credit hours required for exit course admittance.

IDS 3947 Cooperative Internship (0-6) US DEA
Learning objectives determined by faculty and aligned with experiences in the workplace setting related to student's career aspiration and/or academic program. May be repeated for a maximum of 6 credit hours. The internship course is open to all majors.

IDS 3949 Cooperative Education, Parallel (0-2) US DEA
PR: 45+ semester hours completed, cumulative GPA 2.5+, have a declared major and be accepted in Cooperative Education Program. Part-time (10-25 hrs/wk) paid or for credit, career-related work experience. This course may be repeated up to 6 credit hours. Prerequisite: 45+ hours of credit, GPA 2.5+, a declared major and be accepted in Cooperative Education Program. S/U Only.

IDS 4910 Community Research (1-4) AS CEL
PR: CEL Program approval. Repeatable up to 8 credit hours. To provide students with a community related research experience.

IDS 4914 Advanced Undergraduate Research Experience (0-4) US DEA
PR: Upper-level status, FKL work completed, Coursework in the major. Learning objectives determined by faculty and aligned with students career aspirations and/or academic program. May be repeated a maximum of four times. This course is open to all majors.
COURSE DESCRIPTIONS

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IDS 4934 Senior Capstone for BSAS/BGS 6A WRIN CPST (3) US DEA
This course affords students the opportunity to synthesize knowledge they have gained throughout their previous undergraduate coursework and identify how their integrated program of study provides real-world applicability and utility.

IDS 4942 Community Internship (1-4) AS CEL
PR: CEL Program approval. Repeatable up to 8 credit hours. To provide students with a community internship experience.

IDS 4949 Cooperative Education, Alternating (0-3) US DEA
PR: 45+ semester hours completed, cumulative GPA 2.5+, have a declared major and be accepted in Cooperative Education Program. Full-time (40 hrs/wk) paid or for credit, career-related work experience. This course may be repeated up to 6 credit hours. Prerequisite: 45+ hours of credit, GPA2.5+, a declared major and be accepted in Cooperative Education Program.

IDS 4955 International Community Research (1-4) AS CEL
PR: CEL Program approval. Repeatable up to 8 credit hours. To provide students with an international community research experience.

IDS 4956 International Community Internship (1-4) AS CEL
PR: CEL Program approval. To provide students with an international community internship experience. Repeatable up to 8 credits.

IDS 5177 The Atelier, Its Management and History (3) FA ART
This class will consider the history of printmaking and other forms of collaborative art production through the prism of the atelier and its management.

IDS 5178 Problems in Museum Studies (3) FA ART
PR: Art Advisor's Approval This class is designed as both an academic and theoretical course to introduce students to the museum profession and develop critical thinking skills required to solve problems in the rapidly changing typography of museums. Students will develop managerial and administrative skills as they meet with and discuss the job descriptions of curators, educators, collection managers, marketing professionals, exhibit designers, registrars, and fundraisers.

INP 2101 Applied Psychology SS (3) AS PSY
The application of psychological principles and the functions of psychologist in education, government, industry, and clinical practice.

INP 4004 Industrial Psychology (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. Applications of psychological principles to industry. Topics include: selection, training, motivation, job satisfaction, supervision, decision-making.

INR 1015 World Perspective SS AP (3) AS GIA
An interdisciplinary study of the international system, major world regions and problems.

INR 2002 Introduction to International Relations (3) AS GIA
Concepts and analytical tools applied to events such as politics among nations, control of foreign policies, types of actors, war and peace.

INR 3011 Globalization (3) AS GIA
Influence of globalization on political-economic and social systems around the world. International organizations involved with globalization processes are studied along with nations benefiting and suffering from the consequences of globalization.

INR 3018 World Ideologies MW (3) AS GIA
A course which details and examines the ideologies of today's independent countries; analyzing them in their political, social, cultural and historical context.

INR 3033 International Political Cultures MW (3) AS GIA
This course will explore ways in which culture influences the nature of government, economic success or failure, and constructive and destructive modes of self and social identification.

INR 3038 International Wealth and Power SS (3) AS GIA
Introduction to the relationship between politics and economics, emphasizing the analysis of government policies in response to both domestic and international economic problems.

INR 3081 International Issues and Actors (3) AS GIA
Departmental approval required. For majors and minors in INT only. An examination of the most important issues in international affairs. The course analyzes the behavior of major foreign policy actors in the international arena, including nation states, non-governmental and international organizations.

INR 3084 International Terrorism SS AP (3) AS GIA
A study of contemporary international terrorism and its causes, ranging from national liberation movements to networks of philosophical anarchists.

INR 3102 American Foreign Policy (3) AS GIA
Analysis of the development and scope of United States foreign policy, emphasizing goals and objectives, policy formulation and implementation, themes and issues.

INR 3141 Global Security Policy (3) AS GIA
A study of security issues, regional and global (such as proliferation, arms control, arms transfer) as they relate to contemporary international politics.

INR 3202 International Human Rights MW (3) AS GIA
This course explores the evolution of international human rights from the Greeks to the present. It examines human rights issues in major regions of the world.

INR 3336 Intelligence and U.S. Foreign Policy (3) AS GIA
An examination of the role of intelligence and the intelligence community in U.S. foreign policy, with emphasis on the period since World War II.

INR 3955 Overseas Study (1-6) AS GIA
A program of individual or group research in a
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Credits</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>INR 4035</td>
<td>International Political Economy (3) AS GIA</td>
<td>4</td>
<td>Analysis of the development and politics of the international economic system, focusing on questions of cooperation and conflict in trade, aid, and investment relationships.</td>
</tr>
<tr>
<td>INR 4083</td>
<td>Conflict In The World MW (3) AS GIA</td>
<td>3</td>
<td>PR: Junior/Senior standing. An interdisciplinary course examining theories of conflict, conflict resolution processes and strategies, theories and peacemaking strategies, and the concept of Early Warning Systems related to the outburst of conflict.</td>
</tr>
<tr>
<td>INR 4254</td>
<td>Africa in World Affairs MW (3) AS GIA</td>
<td>3</td>
<td>An examination of Africa's place and role in world affairs, including an analysis of the impact of external forces, international relations in post-colonial Africa, the relations of African states with the major world powers, the U.N. and its agencies.</td>
</tr>
<tr>
<td>INR 4403</td>
<td>International Law SS (3) AS GIA</td>
<td>4</td>
<td>Examines essential components of the international legal system; recognition; succession; sea, air and space law, treaties, diplomats, International Court of Justice; laws of war, etc. Introduces the student to legal reasoning as employed in the international context.</td>
</tr>
<tr>
<td>INR 4502</td>
<td>International Organizations SS AP (3) AS GIA</td>
<td>3</td>
<td>Study of the operations and structure of international organizations and effects on world politics; background and achievement of the UN; regional organizations and multi-national corporations.</td>
</tr>
<tr>
<td>INR 4900</td>
<td>Directed Readings (1-3) AS GIA</td>
<td>1-3</td>
<td>PR: Ci. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest.</td>
</tr>
<tr>
<td>INR 4910</td>
<td>Directed Research (1-3) AS GIA</td>
<td>1-3</td>
<td>PR: Ci. A supervised program of interdisciplinary research in areas of specific interest.</td>
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<tr>
<td>INR 4931</td>
<td>Selected Topics (1-4) AS GIA</td>
<td>1-4</td>
<td>Interdisciplinary studies with course content dependent on student demand and instructor's interest.</td>
</tr>
<tr>
<td>INR 4936</td>
<td>Senior Seminar MW (3) AS GIA</td>
<td>3</td>
<td>PR: International Studies major and senior standing. A variable topics seminar integrating concepts and analyses relating to the academic background of INT majors. Should be taken in the student's final semester.</td>
</tr>
<tr>
<td>INR 4943</td>
<td>Internship in International Studies (3-6) AS GIA</td>
<td>3-6</td>
<td>PR: Senior status. S/U only. For majors only. The purpose of the course is to promote the student's understanding of global international issues within a local and practical context.</td>
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<tr>
<td>INR 5012</td>
<td>Globalization (3) AS GIA</td>
<td>3</td>
<td>Examination of globalization’s impact on international relations, including literature from political science, anthropology, geography, sociology, and economics that impacts the study of the nation-state system and power. Open to majors and non-majors.</td>
</tr>
<tr>
<td>INR 5086</td>
<td>Issues in International Relations (3) AS GIA</td>
<td>3</td>
<td>Sr./GS. Explores specific topics and provides the student with an opportunity for in-depth study of historical and contemporary problems in international politics.</td>
</tr>
<tr>
<td>INT 3004</td>
<td>Fundamentals of Interpreting (3) BC CSD</td>
<td>3</td>
<td>PR: ASL 4201C. This is a course of intralingual language exercises that introduces students to and provides practice in techniques of rephrasing and restructuring meaning in ASL and English. Students translate texts between English, ASL and English based sign language.</td>
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<tr>
<td>INT 3110</td>
<td>Language and Cognitive Processing Skills in English (4) BC CSD</td>
<td>4</td>
<td>PR: ASL 4201C; CR: INT 3111. Students develop the cognitive processing and language skills within English that are preliminary steps for interpretation. It will develop student’s ability to segment information to perform various cognitive tasks intralingually. For Majors only.</td>
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<tr>
<td>INT 3111</td>
<td>Language and Cognitive Skills in ASL (4) BC CSD</td>
<td>4</td>
<td>PR: ASL 4201C; CR: INT 3110. Students acquire cognitive processing and language development within ASL that are preliminary steps for performing simultaneous interpretation. This course also includes a service component by volunteering in various deaf communities. For majors only.</td>
</tr>
<tr>
<td>INT 3112</td>
<td>Translation from English and from ASL (3) BC CSD</td>
<td>3</td>
<td>PR: INT 3110, INT 3111. This is a course of intralingual language exercises that introduces students to and provides practice in techniques of rephrasing and restructuring meaning in ASL and English. Students translate texts between English, ASL and English based sign language.</td>
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<tr>
<td>INT 3205</td>
<td>Interpreting I (3) BC CSD</td>
<td>3</td>
<td>PR: INT 3112, ASL 3324. This course reinforces ASL and English skill development and the expressive and receptive skills of beginning interpreting through drill, practice and role play activities and focuses on translation and consecutive interpretation.</td>
</tr>
<tr>
<td>INT 3270</td>
<td>Interpreting Process and Skill Development (3) BC CSD</td>
<td>3</td>
<td>PR: Program Prerequisites. Process-oriented approach for applying essential cognitive strategies to interpretation. Strategies include organizing and manipulating visual and spoken images, analyzing messages for meaning, and self-monitoring for message accuracy.</td>
</tr>
<tr>
<td>INT 3403</td>
<td>Issues in Educational Interpreting (3) BC CSD</td>
<td>3</td>
<td>This course explores the role of the interpreter in the educational setting. Issues related to institutional policies, potential role conflicts, interpreter/faculty collaboration, and support service provision will be emphasized.</td>
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<td>Units</td>
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<tr>
<td>INT 4190</td>
<td>Senior Seminar in Interpreter Training (3)</td>
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<td>BC CSD</td>
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<tr>
<td>INT 4206</td>
<td>Interpreting II (3) BC CSD</td>
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<td>INT 4208</td>
<td>Interpreting III (3) BC CSD</td>
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<tr>
<td>INT 4211</td>
<td>Transliterating (3) BC CSD</td>
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<tr>
<td>INT 4235</td>
<td>Advanced Receptive Voicing (3) BC CSD</td>
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<tr>
<td>INT 4250</td>
<td>Simultaneous Interpretation Monologic (4) BC CSD</td>
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<tr>
<td>INT 4251</td>
<td>Simultaneous Interpretation Dialogic (4) BC CSD</td>
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<tr>
<td>INT 4260</td>
<td>ASL to English Consecutive Interpretation (2) BC CSD</td>
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<td>BC CSD</td>
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<tr>
<td>INT 4261</td>
<td>English to ASL Consecutive Interpretation (2) BC CSD</td>
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<td>BC CSD</td>
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<tr>
<td>INT 4456</td>
<td>Interpreting: Specialized Settings and Populations (3) BC CSD</td>
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<tr>
<td>INT 4460</td>
<td>Video Interpreting (3) BC CSD</td>
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<tr>
<td>INT 4490</td>
<td>Introduction to Cued Speech and its Applications (3) BC CSD</td>
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<tr>
<td>INT 4944</td>
<td>Practicum: Interpreting in the Schools (1-8) BC CSD</td>
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<td>BC CSD</td>
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<tr>
<td>ISC 1004</td>
<td>Integrated Natural Sciences I: Science that Matters NS (3) AS IDS</td>
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<td>ISC 1005</td>
<td>Integrated Natural Sciences II: Science that Matters NS (3) AS IDS</td>
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<tr>
<td>ISM 3011</td>
<td>Information Systems in Organizations (3) BA QMB</td>
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</table>
involved in the management of information systems including fundamentals of computer-based technology and the use of business-based software for support of managerial decisions.

**ISM 3113 Systems Analysis and Design (3) BA QMB**
PR: ISM 3011 with a grade of "C" or better (not C-).
The course presents concepts, procedures, and tools needed to build computer-based information systems. The objective is to develop project management, data collection, analysis, design, testing and documentation skills.

**ISM 3115 Business Informatics (3) BM QMB**
PR: ISM 3011. Business informatics is concerned with the use of information technology to solve business problems. The course will present the methods and technical tools required to design systems to support managerial decision making.

**ISM 3232 Business Application Development (3) BA QMB**
CP: ISM 3011 with a grade of "C" or better (not C-). Presentation of business application development using an object-oriented programming language. Good program design techniques are emphasized. Business applications are developed.

**ISM 3431 Operations and Supply Chain Processes (3) BA QMB**
PR: QMB2100, ACG2071, with grade "C" or better (not C-). This course will provide a contemporary overview of operations management with special emphasis on supply chains and services. Both concepts for successful managers and common tools used to build, manage, and improve systems will be covered.

**ISM 4141 Web Application Development/Java (3) BA QMB**
PR: ISM 3232 with a grade of "B" or better. Java will be used to introduce object oriented concepts. Programming assignments cover a variety of application features including graphical user interface, database connectivity, multithreading, & client-server computing using Java and Java Server Pages.

**ISM 4153 Information Systems in Organizations (3) BA QMB**
PR: ISM 4212 with a grade of "C" or better (not C-). An introduction to the use, configuration and implementation of enterprise resource planning systems, and their application to key business processes. This course is restricted to business majors only.

**ISM 4212 Database Design and Administration (3) BA QMB**
PR: ISM 3113 with a grade of "C" or better (not C-). An introduction to the concepts and principles of database management. Provides potential designers, users and managers of database systems with an understanding of physical vs. logical representations, data modeling, implementation, and data management.

**ISM 4213 Advanced Database Administration (3) BA QMB**
PR: ISM 3113, ISM 4212, with grades of "C" or better (not C-). Essential concepts of database administration in a business environment are covered in order to prepare students to understand and deal with database administration issues and concepts. Students gain hands-on experience by administering a database environment and completing assignments that involve resource management, data administration, security, backup, recovery and database tuning issues.

**ISM 4220 Business Data Communications (3) BA QMB**
PR: ISM 3011 with a grade of "C" or better (not C-). Fundamentals of data communication, including network architectures, communication protocols, transmission standards, and internetworking. Basic concepts in distributed computing will also be covered.

**ISM 4233 Information System Interface Design (3) BA QMB**
PR: ISM 3232 with a grade of "C" or better (not C-). An introduction to theories of human-computer interaction and the principles and practices of information system interface design, evaluation, and integration. Students develop programs utilizing various user interface design techniques.

**ISM 4234 Object-Oriented Design and Development (3) BA QMB**
PR: ISM 3232 with a grade of "B" or better. This course presents an object-oriented approach to software development of business information systems. Students will learn to create object models of the business world and to develop information system designs based on these objects.

**ISM 4300 Managing Information Resources (3) BA QMB**
PR: ISM 4212 and ISM 4220, with grades of "C" or better (not C-). Current issues in information systems management focusing on managing computer resources and social issues such as ethics, privacy, and legal issues including intellectual property.

**ISM 4323 Information Security and IT Risk Management (3) BA QMB**
PR: Interest in computers and information security. Senior standing, all majors. Introduction to information security and IT risk management in organizations. Covers essential IT general controls and frameworks to assess IT risk in a business environment.

**ISM 4382 Global Information Systems (3) BA QMB**
PR: ISM 3011 with a grade of "C" or better (not C-). Role of information technology in global business organizations and challenges in building information systems to enable global operations.

**ISM 4400 Decision Support Systems (3) BA QMB**
PR: QMB 3200, ISM 3011, with a grade of "C" or better (not C-). Study of quantitative analysis tools and their use in organizational decision making.
Emphasis on a structured approach to making common business decisions, demonstrating several forms of mathematical modeling and other management science techniques.

**ISM 4480 Electronic Commerce Systems (3) BA QMB**
- **PR:** ISM 3011 with a grade of "C" or better (not C-), MIS major or CC. Familiarize students with the opportunities and challenges associated with e-commerce and its business models, to explore the underlying technologies used in implementing e-commerce systems, and to develop the skills needed to manage effective Web sites.

**ISM 4905 Independent Study (1-6) BA QMB**
- S/U only. Independent study as directed by designated faculty.

**ISM 4930 Selected Topics in MIS (1-3) BA QMB**
- Selected topics in MIS.

**ISM 4950 Independent Research (1-6) BA QMB**
- **PR:** CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

**ISM 4970 Information Systems Honors Thesis (3) BA QMB**
- This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

**ISS 1101 Knowledge and Society SS (3) AS ISS**
- Course introduces students to issues concerning the relationship between knowledge and society. Among the issues addressed are competing accounts of knowledge and the relationship between knowledge and other forms of human experience and different aspects of social life such as religion, morality, aesthetics, politics, and gender.

**ISS 1102 Self and Society 6A SS CASB (3) AS ISS**
- This course considers the history of the intellectual and social underpinnings of individualism. Why do we consider ourselves "selves," independent of social forces which we so readily recognize in others?

**ISS 1103 Nature and Culture SS (3) AS ISS**
- This course examines competing ideas and theories concerning the relationship between nature and culture. Among the issues and questions examined are the relationship between nature and our awareness of it; to what extent is nature transformable; should "nature" dictate the shape of social institutions; how does technology affect our society and environment.

**ISS 3010 Introduction to the Social Sciences (3) AS ISS**
- Integrates the range of social science fields into a global interdisciplinary perspective. Views social institutions and issues from perspectives of changing paradigms.

**ISS 3300 Research Methods in Social Sciences (3) AM ISS**
- **PR:** ISS 3010, STA 2122. This course introduces students to the methodologies used in social science research. It covers both qualitative and quantitative research design, sampling, measurement, analysis, and critical evaluation of scholarly literature.

**ISS 3930 Selected Topics in the Social Sciences (1-4) AS ISS**
- Interdisciplinary studies of varying topics, with course content dependent on student demand and instructor's interest.

**ISS 3931 Selected Topics in the Social Sciences (3) AM ISS**
- **PR:** ISS 3300. Interdisciplinary studies of varying topics, with course content dependent on student demand and instructor's interest. The course builds on the knowledge attained from the Research Methods in Social Sciences course.

**ISS 4151 Native American Women (3) AS ISS**
- An interdisciplinary examination of lives of Native American Women, past and present, Topics include history, education, politics, family, etc.

**ISS 4900 Directed Readings (1-3) AS ISS**
- **PR:** CI. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest.

**ISS 4910 Directed Research (1-3) AS ISS**
- **PR:** CI. A supervised program of interdisciplinary research in areas of specific interest.

**ISS 4935 Seminar in the Social Sciences MW (3) AS ISS**
- **PR:** Senior standing and ISS 3010 or CI. The seminar which caps the interdisciplinary major. Weds personal curiosity with the application of theoretical models to research on salient social issues.

**ISS 4939 Senior Capstone Seminar in ISS (3) AM ISS**
- **PR:** ISS Majors only. Individual guidance in a selected internship. Restricted to majors. Nonrepeatable.

**ISS 5934 Selected Topics (1-3) AS AFA**
- **PR:** CI plus senior standing or graduate status. Interdisciplinary studies with course content dependent on student demand and instructor's interest.

**ITA 1120 Beginning Italian I (4) AS WLE**
- **CR:** ITA 1120L. The first course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking, and reading.
COURSE DESCRIPTIONS

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ITA 1120L Beginning Italian Laboratory (1) AS WLE
CR: ITA 1120. A laboratory designed to offer additional practice using various instructional technologies and media.

ITA 1121 Beginning Italian II (4) AS WLE
CR: ITA 1121L. The second course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking and reading.

ITA 1121L Beginning Italian II Laboratory (1) AS WLE
CR: ITA 1121. S/U only. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. A laboratory designed to offer additional practice using various instructional technologies and media.

ITA 2200 Italian III (3) AS WLE
PR: ITA 1121 or equivalent. Readings in Italian on the elementary level. A review of the basic structure of spoken and written Italian.

ITA 2201 Italian IV (3) AS WLE
PR: ITA 2200. This course marks the fourth level in the acquisition of Italian language. It continues to encourage students to speak, listen, read and write in the target language through frequent communicative activities.

ITA 2240 Italian Conversation I (3) AS WLE
PR: ITA 2200 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student’s knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITA 2241 Italian Conversation II (3) AS WLE
PR: ITA 2241 or CI. This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating student’s knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITA 3234 Readings in Italian Literature and Culture (3) AS WLE
PR: Beginning Italian I & II; & two of ITAIII, ITAIV, ITA 2240, ITA 2241, or ITA 3420 at discretion of Prof. This course marks an advanced level in the acquisition of Italian language. It continues to encourage students to speak, listen, read, and write in the target language through intensive reading.

ITA 3420 Composition (3) AS WLE
A fundamental composition course for students who have completed ITA 2200.

ITA 3470 Overseas Study (1-6) AS WLE
Prior approval and early registration required. An intensive study-travel project in Italy.

ITT 3504 Italian Culture Through Film HP MW (3) AS WLE
An overview of Italian culture from the Unification to the present. It aims at tracing the ways in which the concept of Italian culture has been defined according to different social, historical, and political perspectives. Taught in English

ITT 4505 Italy & the Italian-American Experience (3) AS WLE
The focus of this course is on the representation of Southern Italy in a selection of novels, films, memoir writing, and music and on the history of the Italian diaspora – mainly made of Southerners migrated to the United States.

ITW 4100 Survey of Italian Literature I (3) AS WLE
The course aims at providing an introduction to the study of Italian Medieval and Renaissance literature and civilization. The course may be taught as a survey course or it may focus on any author, period, genre, or cultural theme.

ITW 4101 Survey of Italian Literature II (3) AS WLE
The course aims at providing an introduction to the study of Italian Modern and Contemporary literature and civilization. The course may be taught as a survey course or it may focus on any author, period, genre, or cultural theme.

ITW 4905 Directed Study (1-3) AS WLE
Departmental approval required. Selected topics in Italian literature.

JOU 2100 Beginning Reporting (3) AS COM
PR: MMC 2100 and MMC 3602. Basic instruction in news judgment, sources of news, newsgathering, and newswriting techniques for various media. Typing ability is required.

JOU 2101 Advanced Reporting (3) AS COM
PR: JOU 3101 and JOU 4201. Interpretive and analytical reporting, including ethical and legal considerations.

JOU 2107 Critical Writing: Editorials, Reviews, Columns (3) AS COM
PR: JOU 3101 and JOU 2100. Planning, developing article ideas and analysis of magazine, newspaper supplements. Experiences in researching, writing, and marketing articles for general and special interest magazines and newspaper supplements. Experiences in developing article ideas and analysis of magazine articles.

JOU 3308 Magazine Article and Feature Writing (3) AS COM
PR: CRW 2100 and JOU 2100. Planning, researching, writing, and marketing articles for general and special interest magazines and newspaper supplements. Experiences in developing article ideas and analysis of magazine articles.

JOU 3940 Reporting Practicum (1) AS COM
PR: JOU 3101 and CI. For journalism sequence majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

JOU 4181 Public Affairs Reporting (3) AS COM
PR: JOU 3101 or RTV 3301 (RTV majors only), POS 2041 and POS 2112 or POS 3142. Covering
city council meetings, courthouse, city hall, courts, society, and other special assignments. Emphasis is on coverage of major governmental units of all levels of government, including examination and interpretation of public documents and records.

JOU 4188 Neighborhood News Bureau (3) AP COM
PR: JOU 2100, MMC 2100, MMC 3602 This course provides students with experience and news clips. Classes are conducted as editorial meetings and students report and write about minority and multi-ethnic communities. The course is restricted to majors and is not repeatable for credit.

JOU 4201 News Editing I (3) AS COM

JOU 4206 Newspaper and News Publication Design (3) AS COM
PR: JOU 4201 or CI. Theoretical and practical applications of newspaper and news publication design, including typography, graphics, graphics software and electronic picture editing. Exercises in design for newspapers and news publications in both print and electronic formats.

JOU 4212 Magazine Design and Production (3) AS COM
PR: JOU 4201. Theoretical and practical application of design principles for magazines. Design software. Study of visual design, page architecture, typography, color and illustrations. Integration of design elements in the design of magazine covers. Design elements specific to magazine and production preparation.

JOU 4938 Senior Capstone Seminar (2) AP COM
PR: Senior standing as a department major. Students complete a final professional project, a portfolio, and exit examination. Senior Seminar is the result of the department's development of a plan to set and measure learning outcomes. It is restricted to majors and not repeatable for credit.

JOU 4941 Editing Practicum (1) AS COM
PR: Senior standing, JOU 4201 and CI. For journalism sequence majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

JOU 4944 Magazine Practicum (1) AS COM
PR: Senior standing and CI. For journalism sequence majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

JOU 5105 Newswriting and Editing (3) AS COM
PR: GS in Mass Communications or CI. Introduction to the basics of gathering, writing, and editing the news, with an emphasis on practical assignments done under professional conditions and standards. Discussions, readings emphasize the larger context and implications of news.

JOU 5305 Explorations in Newswriting (3) AS COM
PR: CC. Students work to develop writing styles, reporting on and creating stories about significant issues, events, and ideas. The course explores the notion that narrative-style journalism can be accurate, thorough, fair, and compelling, effectively bringing readers into stories and giving them a bigger stake in the news. The focus is on-going beyond traditional practices of reporting and writing news stories.

JOU 5344 Multimedia Journalism (3) AS COM
PR: An appropriate undergraduate degree in mass communications or significant professional experience in journalistic writing styles. The course is designed to bring components of print, web and broadcast writing together to develop skills for and understanding of the multimedia environment. It is restricted to majors and not repeatable for credit.

JPN 1120 Modern Japanese I (4) AS WLE
CR: JPN 1120L. An intensive study of basic skills: pronunciation, listening comprehension, speaking, and some composition.

JPN 1120L Modern Japanese I Laboratory (1) AS WLE
CR: JPN 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

JPN 1121 Modern Japanese II (4) AS WLE
PR: JPN 1120 or equivalent. Continuation of JPN 1120L. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

JPN 1121L Modern Japanese II Laboratory (1) AS WLE
CR: JPN 1121. S/U only. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. A laboratory designed to offer additional practice using various instructional technologies and media.

JPN 1123 Modern Japanese III (4) AS WLE
PR: JPN 1121 or equivalent. Continuing study to attain basic proficiency in Japanese.

JPN 2200 Modern Japanese III (4) AS WLE
PR: JPN 2200 or equivalent. Continuing study to attain basic proficiency in Japanese.

JPN 2221 Modern Japanese IV (4) AS WLE
PR: JPN 2220 or equivalent. Continuation of JPN 2200.

JPN 4905 Directed Study (1-5) AS WLE
Departmental approval required. S/U only. Permits study options in Japanese not available in regularly scheduled curriculum at departmental discretion.

JPN 4930 Selected Topics (1-5) AS WLE
Departmental approval required. Course permits study options in Japanese not available in the
LAE 4311 Teaching Print and Multimodal Texts in Elementary Education (3) ED EDU
PR: LAE 4424. The purpose of this course is to understand children’s writing processes and effective instructional strategies for supporting composition.

LAE 4314 Teaching Writing in the Elementary School, Grades K-6 (3) ED EDU
PR: Elementary Education majors or CL. The purpose of this course is for students to understand children's writing development and to design and implement instructional strategies for teaching composition in an integrated Language Arts curriculum.

LAE 4323 Methods of Teaching English: Middle School (3) ED EDI
Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for middle school students.

LAE 4332 Traditional English Grammar for Teachers (3) ED EDU
PR: English Education Majors only or CI. Prepares teachers to teach secondary English with an interactive approach to grammar instruction in which students learn, not only the basic elements of English grammar, but also pertinent and engaging classroom activities for teaching grammar.

LAE 4335 Methods of Teaching English: High School (3) ED EDI
CR: LAE 4464. Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for high school students.

LAE 4343 Writing across the Curriculum (2) EP EDU
Prepares pre-service teachers by developing an understanding of the foundations of writing through the use of Writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers.

LAE 4414 Teaching Literature in the Elementary School, Grades K-6 6A LW WRIN (3) ED EDU
This course involves the selection, evaluation, and use of fiction, nonfiction, and poetry for instructional, informational, and recreational purposes in childhood education.

LAE 4424 Teaching Children's Literature (3) ED EDU
Building on an appreciation for children's literature, this class is for undergraduate teacher candidates to learn how to select quality literature for children and to demonstrate instructional strategies for developing children’s engagement.

LAE 4464 Adolescent Literature for Middle and Secondary Students 6A LW (3) ED EDI
PR: English Education majors or CI. A study of the types of literature read by adolescents with an emphasis upon the criteria for the choice of good books and knowledge of available books and teaching materials.

LAE 4469 Teaching World Literature to Middle and Secondary Students MW (3) ED EDI
World literature encompasses more than Western European literature. This course is designed to emphasize, but is not limited to, the study of Eastern literature. This course fulfills the world literature course requirement for teacher certification in English.

LAE 4530 Methods of Teaching English: Practicum (3) ED EDI
This course provides students an opportunity to demonstrate their ability to plan, deliver instruction, and reflect upon the effectiveness of their teaching in secondary school English/Language Arts classrooms. Course is restricted to majors.

LAE 4936 Senior Seminar in English Education CPST (3) ED EDI

LAE 4940 Internship: English Education (1-12) ED EDI
S/U only. One full semester of internship in a public or private school. Intern takes Senior Seminar in English Education concurrently. In special programs where the intern experience is distributed over two or more semesters, student will be registered for credit which accumulates from 9 to 12 semester hours.

LAE 5462 Young Adult and World Literature for New Teachers (3) ED EDI
PR: Teaching position whether English degree or 30 hrs of Undergraduate English A study of the types of literature read by adolescents, including literature representative of other cultures, with emphasis upon the criteria for the choice of good books and knowledge of available books and teaching materials.

LAE 5582 Classroom Communication in English Education (3) ED EDI
Identifies characteristics of classroom communication environment; offers insights, info, instructional strategies designed to help you become effective classroom communication managers. Emphasis on role of media & non-print texts in students’ lives.

LAE 5932 Selected Topics in the Teaching of English (3) ED EDI
PR: Certification in English and/or Mass Communications and approval of graduate advisor. Investigation of topics which are of special interest to the student and are related to the teaching of English in the secondary school. Topics will be selected by the student in accordance with his particular goals and will be approved by the student's graduate advisor.
LAH 2020 Latin American Civilization HP AP CAGC HHCP (3) AS HTY
This course introduces the principle historical events, trends, conflicts and outcomes that have shaped the Spanish and Portuguese Americas from the Pre-Columbian period (prior to 1492) to the present.

LAH 2733 Latin American History in Film HP AP (3) AS HTY
Through the use of films and readings, the course introduces the broad sweep of Latin American history from the pre-Columbian period to today. Emphasis is placed on the social-cultural context to understand the peoples and events that have shaped Latin America.

LAH 3130 Colonial Latin America (3) AS HTY
A study of the Spanish and Portuguese Colonial empires in the New World from 1492-1830.

LAH 3200 Modern Latin America (3) AS HTY
A study of the emergence of the Latin American states. The course will examine developments in Latin America during the nineteenth and twentieth centuries. Special attention is given to the Third World character of the region.

LAH 3430 History of Mexico (3) AS HTY
Mexican history from pre-Columbian cultures to the twentieth century. Emphasis falls on the colonial political economy, social development, the wars of independence, development of the 19th century Mexican state and the Mexican revolution.

LAH 3470 History of the Caribbean (3) AS HTY
A thematic study of the circum-Caribbean from pre-Columbian cultures to the twentieth century, emphasizing the development of the Caribbean political economy with emphasis on monoculture, plantation society, and colonial/neo-colonial relationships.

LAH 3480 History of Cuba (3) AS HTY
Cuban history from pre-Columbian cultures to the Cuban Revolution. Emphasis on colonization, the sugar economy, the struggles for independence, the political economy of the Republic, and the 20th century revolutionary process.

LAS 3002 Latin America (3) AS GIA
Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems.

LAS 3116 Latin America Through Film AP (3) AS GIA
This course will use film, video, selected readings, and lectures to teach the interested student about Latin America.

LAS 4023 African Diaspora in Latin American and the Caribbean CAGC HHCP (3) AS AFA
The class examines the development and history of the African Diaspora in Latin America and the Caribbean from colonization through the modern era. While primarily a history course, anthropological and sociological perspectives are also incorporated.

LAS 4934 Selected Topics: Latin American Studies (3-9) AS GIA
Latin America region will be analyzed through different specific topics to provide students analytical tools to understand hemispheric relations and the relevance of this complex region for the USA. Open to non-majors, repeatable up to 9 credits.

LAS 4940 Internship in Latin American and the Caribbean (1-9) AS GIA
PR: CI. Designed to complement other instruction focused on Latin America and the Caribbean. Open to all majors and is repeatable up to 9 hours.

LAT 1120 Beginning Latin I (4) AS WLE
An introductory course in Latin grammar with appropriate readings.

LAT 1121 Beginning Latin II (4) AS WLE
PR: LAT 1120 or equivalent. An introductory course in Latin grammar with appropriate readings.

LAT 2220 Intermediate Latin (4) AS WLE
PR: LAT 1121 or equivalent. Readings in Latin at an intermediate level.

LAT 2221 Intermediate Latin II (4) AS WLE
PR: LAT 2220. This class will introduce students to their first Latin author, and to the techniques and skills of intermediate work in Latin. It will also provide a comprehensive review of Latin Grammar. It is not restricted to majors, and not repeatable for credit.

LDR 2010 Leadership Fundamentals (3) US LDR
Covers a broad range of leadership topics from self-development and understanding of self, to group behavior, organizational design, ethics and teamwork. The potential of every individual to develop effective leadership skills is examined.

LDR 3003 Introduction to Leadership Studies (3) AM LDR
This course focus is understanding self and personal leadership. It covers a broad range of leadership topics from understanding self, group behavior, peer and group, organizational design, ethics, and change.

LDR 3115 Contemporary Issues In Leadership (3) US LDR
This course offers students interested in the dynamics of contemporary leadership the opportunity to explore relevant leadership trends and examine contemporary leadership theories.

LDR 3214 Leadership in the Fraternal Movement (3) US LDR
Leadership course designed for Greek Life board members, chairpersons of chapters, governing councils and auxiliary organizations. Study of group processes and applications for building and leading organizations from corporate and non-profit perspectives.

LDR 3216 Leadership and Social Change (3) US LDR
This course explores the role of leadership in...
LDR 3263 Community Leadership Practicum (3) US LDR
- PR: LDR 2010 or LDR 3331, with a minimum grade of C-. This course involves the transference of leadership theories into practice. It provides a practical forum for students to examine and develop personal leadership skills.

LDR 3280 Leadership in the Political Context (3) US LDR
- This course offers students the dynamics of political leadership, exploring relevant leadership trends and examines leadership theory. Articles, film/documentaries, short fiction, experiential activities, and role playing as the learning medium.

LDR 3331 Leading in the Workplace (3) US LDR
- PR: Junior Standing. Explores the complex challenges of leadership through the examination of leaders and workforce situations. Designed to view leadership as a process focusing on the leader, the followers, and real-world workplace situations. Appropriate for working adults.

LDR 3930 Selected Topics in Leadership (0-4) US LDR
- Course content will depend upon the interest of the faculty member and student demand. Repeatable up to 15 credits.

LDR 4104 Theories of Leadership HP (3) US LDR
- PR: LDR 2010 or LDR 3331, with a minimum grade of C-. Focuses on historical and modern views of leadership. It is designed to assist students analyzing and understanding the historical, social, political aspects of leadership theories and styles as well as the application of leadership theories in settings.

LDR 4114 Survey of Leadership Readings (3) US LDR
- Survey of historical and contemporary writings on leadership skills and practices. Examines the contextual manner in which the leader functions.

LDR 4164 Organizational Theories and Processes (3) US LDR
- PR: LDR 2010 or LDR 3331, with a minimum grade of C-. Participants will delve into the nature of organizational dynamics, they will utilize concepts, generalizations, theories, and frames of reference to analyze organizations and leadership to understand and improve their function.

LDR 4204 Ethics and Power in Leadership (3) US LDR
- Course reviews arguments for ethics in leadership as proposed by both contemporary and ancient leadership theories. It also examines theories of power and authority, and seeks answers to the apparent dilemmas through applied moral theory and psychology.

LDR 4230 Global Leadership (3) US LDR
- A focus on historical and contemporary issues concerning the role, responsibilities and processes for leaders in the global environment. Addresses leadership concerns relating to social, cultural, ethical, political, economical, and environmental issues.

LDR 4564 Images of Leadership in the Media (3) US LDR
- This course examines the historical development of leadership theory through contemporary times. Surveys literature and other media relevant to role of the leader and to the development and application of leadership skills.

LDR 4951 Leadership Capstone Seminar (3) US LDR
- PR: LDR 2010 or LDR 3331, with a minimum grade of C-. This is the culminating course/experience for the Leadership minor assisting students in the integration of their study of leadership. Students will analyze and synthesize the concept of leadership using cultural, ethical, sociological, political, economic and historical perspectives addressed in prior Leadership courses.

LIN 2002 Language, Culture & Film AP CAHU (3) AS WLE
- Offers initial exposure to foreign languages and cultures. Through lecture, demonstration, discussion, and the viewing of full-length feature films, students are introduced to a variety of prominent modern and ancient languages and cultures.

LIN 2670 English Grammar and Usage (3) AS ENG
- A course in the basics of traditional English grammar designed as a complement to our composition and creative writing courses, as a review for those students who will take preprofessional exams, and as a basic course for students interested in improving their knowledge of English. Will not count toward the English major.

LIN 3010 Introduction to Linguistics (3) AS WLE
- Introduction to the basic principles of linguistic science; phonological and grammatical analysis and description; language change and genetic relationships.

LIN 3801 Language and Meaning 6A (3) AS WLE
- A survey introduction for non-specialists to the basic principles of semantics and the way language conveys ideas. This course is also available on WUSF/TV Channel 16 by the O.U. Program.

LIN 4671 Traditional English Grammar (3) AS ENG
- A course primarily using the sentence diagram to present a detailed analysis of the parts of speech, verb tenses, sentence functions, and other basic grammatical classifications of traditional English grammar.

LIN 4680 Structure of American English (3) AS ENG
- An introductory survey of traditional, structural, and generative transformational grammars and their techniques for the analysis and description of
linguistic structure in general, and contemporary American English, in particular.

LIN 4903 Directed Reading (1-3) AS WLE
PR: CI. Readings in special topics.

LIN 4930 Selected Topics (1-3) AS WLE
PR: CI. Course content depends upon students' needs and instructor's interest and may range over the entire field of linguistics.

LIN 5700 Applied Linguistics (3) AS WLE
Analysis of the phonological, morphonological, and syntactic features of English as a basis for linguistic application to problems of English language acquisition by non-native speakers.

LIS 2005 Library and Internet Research Skills CASB (3) AS LIS
This course covers the development of undergraduate research and critical thinking skills to identify, evaluate, and use appropriate information sources to address educational, research, and other information needs.

LIS 2937 Selected Topics in Library/Information Science (1-3) AS LIS
Covers a variety of topics in the field of library/information science such as emerging technologies, administration and service, and current professional issues.

LIS 3261 Introduction to Information Science (3) AS LIS
Foundations of the discipline, history, core theories and methodologies, and approaches to information science, with an emphasis on the critical role of information technology. Majors only or permission of instructor.

LIS 3352 Interaction Design (3) AS LIS
PR: LIS 3353. Covers the process of interaction design with an emphasis on a user-centered approach. Major topics include cognition; user needs assessment, interface design, modeling, prototyping, usability testing, and evaluation. Majors only or permission of instr.

LIS 3353 IT Concepts for Information Professionals (3) AS LIS
Covers the history, development, and current state of computer hardware and software. Also examines programming basics, networks, the internet and web, emerging technologies, information industries, and careers. Majors only or permission of instructor.

LIS 3361 World Wide Web Page Design and Management (3) AS LIS

LIS 3783 Information Architecture (3) AS LIS
PR: LIS 3103. Covers design, organization, implementation, and maintenance of digital information spaces for human access, navigation, and use. Examines core concepts and dominating technologies in IA. Majors only or permission of instructor.

LIS 4204 Information Behaviors (3) AS LIS
PR: LIS 3103. Theories and issues surrounding various information behaviors, such as information needs, seeking, and use, and understanding the practices of information professionals and design of information systems. Majors only or permission of instructor.

LIS 4365 Web Design Technologies (3) AS LIS
PR: LIS 3361 Exploration of advanced applications of key Web Technologies. Majors only or permission of instructor.

LIS 4414 Information Policy and Ethics (3) AS LIS
Examines issues related to information use in today's society. Topics include governmental regulations and policies, information literacy, digital divide, information ethics, and intellectual property issues. Majors only or permission of instructor.

LIS 4482 Networks and Communication (3) AS LIS
PR: LIS 3353. This course is designed to provide a solid foundation in data communication and networking. Topics include local area networks (LANs), wide area networks (WANs), protocols used to implement networks & management issues of IT professionals. Majors or PI.

LIS 4938 Selected Topics in Information Studies (3) AS LIS
Covers a variety of topics in the field of library/information science such as emerging technologies, administration and service, and current professional issues.

LIS 5020 Foundations of Library and Information Science (3) AS LIS
Introduction to the study of library and information science, history; organization; specialized literature; outstanding leaders; current trends, issues, and problems; the place of the information agency in society with its contributions to that society.

LIS 5268 Microcomputer Applications Library and Information Centers (3) AS LIS
Microcomputer hardware and software for libraries and their application in library/information settings. Projects using major applications for budgets, databases, and telecommunications are undertaken.

LIS 5315 Instructional Graphics (3) AS LIS
Theoretical aspects, planning and production of instructional graphic material. The theory of graphic communications. Interpreting needs for instructional materials appropriate for given behavioral objectives.

LIS 5333 TV in Schools and Libraries (3) AS LIS
Small format video tape recordings and the utilization of open and closed broadcasts in schools and libraries.

LIS 5418 Health Informatics for Medical Librarians (3) AS LIS
PR: LIS 5020 or LIS 6620. CR: LIS 6475. Introduction to the interdisciplinary field of medical informatics highlighting the underlying theories, and methods related to health information technology in support of decision-making, problem-solving, and other health information problems.
### COURSE DESCRIPTIONS

**LIS 5566 Multicultural Literature for Children and Young Adults** (3) AS LIS  
Students will select and evaluate multicultural and special population materials for effective use in youth services and programs in public and school libraries.

**LIS 5937 Selected Topics in Library Studies** (1-4) AS LIS  
Covers a variety of topics in such areas as collection development, reference services, technical services, and administration.

**LIT 2000 Introduction to Literature** 6A HP CAHU (3) AS ENG  
This course will introduce students to the three major literary forms of prose, poetry and drama as well as to various "schools" of literary criticism. Will not count toward the English major.

**LIT 2010 Introduction to Fiction** 6A HP CAHU (3) AS ENG  
A study of the short story and novel as literary forms; approached from an historical perspective though not restricted to any historical period. Will not count toward the English major.

**LIT 2020 Introduction to the Short Story** 6A CAHU HHCP (3) AS ENG  
Introduction to the formal elements of the short story, analysis and interpretation, application of major types of literary criticism, the history of the genre and its interaction with its social context. Will not count toward the English major.

**LIT 2030 Introduction to Poetry** 6A HP CAHU (3) AS ENG  
A study of the poem as literary form; approached from an historical perspective though not restricted to any historical period. Will not count toward the English major.

**LIT 2040 Introduction to Drama** 6A HP CAHU (3) AS ENG  
This course will introduce students to the literary form of drama as well as to the various "schools" of literary criticism. Will not count toward the English major.

**LIT 3022 Modern Short Prose HP** (3) AS ENG  
PR: ENC 1101 and ENC 1102. This course for English majors and minors explores modern short prose in World, British, and American literatures; genres include the short story, the long short story, the short novel, and the essay. Not repeatable.

**LIT 3031 Survey of Poetry** (3) AS ENG  
A chronological sampling of the major poems written in English from the Middle Ages to the present. Recommended as the first literature course in the CRW (Poetry emphasis) Option.

**LIT 3043 Modern Drama** (3) AS ENG  
A study of such modern and contemporary dramatists as Ibsen, Strindberg, Chekhov, Pirandello, Shaw, O’Neill, Pinter, Stoppard, Brecht, Beckett, and Ionesco.

**LIT 3093 Contemporary Literature** (3) AS ENG  
An introduction to the fiction, poetry, and drama written since 1945--American, British, Continental, or Multicultural. Focus may be on one, two, or all three genres or on works from any combination of nationalities.

**LIT 3101 Literature of the Western World Through the Renaissance** (3) AS ENG  
A study in English of the great works of Western Literature from its beginnings through the Renaissance, including the Bible, Homer, Sophocles, Plato, Euripides, Virgil, Cicero, Dante, Petrarch, Machiavelli, and Rabelais, among others.

**LIT 3102 Literature of the Western World Since the Renaissance** (3) AS ENG  
A study in English of the great works of Western Literature from the Neoclassic to the Modern Period, including such writers as Moliere, Racine, Voltaire, Dostoevsky, Chekhov, Ibsen, Kafka, Gide, Sartre, and Camus, among others.

**LIT 3103 Great Literature of the World** 6A MW LW WRIN (3) AS ENG  
A survey of world literature including samples from the ancient and modern era, Western and Eastern traditions, male and female writers, and various ethnic cultures. Focus on values/ethics, race, ethnicity and gender; thinking and writing skills. Will not count toward the English major.

**LIT 3144 Modern European Novel** 6A HP (3) AS ENG  
A study of the Modern European novel in translation as it developed from the nineteenth century to the present, including such writers as Dostoevsky, Flaubert, Kafka, Hesse, Camus, and Solzhenitsyn.

**LIT 3155 Twentieth-Century Literature** 6A HP MW LW WRIN (3) AS ENG  
Examines major literary works of the 20th Century written in English and explores ways authors have expressed the age, its great issues and conflicts, in order to gain an historical perspective that will help relate the present to the recent past. Will not count toward the English major.

**LIT 3301 Cultural Studies and the Popular Arts** 6A MW LW WRIN (3) AS ENG  
A study of American and international cultures as they are represented in the film, fiction, and other cultural artifacts of various ethnic groups and nationalities. Focuses on values/ethics, race, ethnicity and gender; thinking and writing skills. Will not count toward the English major.

**LIT 3353 Literature, Race, and Ethnicity** (3) AP ENG  
PR: ENC 1102 with a grade of C- or better. Course examines the intersections of race, ethnicity & literature. Focusing on one or multiple groups, provides a conceptual grounding in how written identities are formed from within marginalized communities & how groups use writing to define themselves.

**LIT 3374 The Bible As Literature** 6A MW WRIN (3) AS ENG  
Major emphasis on literary types, literary personalities of the Old (Fall semester) and New (Spring semester) Testaments, and Biblical archetypes of British and American literary classics.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIT 3383</td>
<td>The Image of Women in Literature 6A MW LW WRIN (3) AS ENG</td>
<td></td>
<td>ENG</td>
<td>This course seeks to trace the origins of contemporary views about women, to analyze major Eastern and Western literary portrayals of women, to examine ideas about women's roles, and to compare and contrast cultural and racial images of women. Will not count toward the English major.</td>
</tr>
<tr>
<td>LIT 3410</td>
<td>Religious and Philosophical Themes (3) AS ENG</td>
<td></td>
<td>ENG</td>
<td>Theological and philosophical ideas, allusions, and symbols in the writings of Dostoevsky, Nietzsche, Mann, Joyce, Eliot, Camus, Sartre, among others.</td>
</tr>
<tr>
<td>LIT 3451</td>
<td>Literature and the Occult 6A MW LW WRIN (3) AS ENG</td>
<td></td>
<td>ENG</td>
<td>An introduction to the occult tradition as a major ingredient in English, Continental, American, and Multicultural literature. Focuses on values/ethics, race/ethnicity and gender; thinking and writing skills. Will not count toward the English major.</td>
</tr>
<tr>
<td>LIT 3930</td>
<td>Special Topics in English Studies (3) AS ENG</td>
<td></td>
<td>ENG</td>
<td>The study of variable specialized areas of literary interest, suitable for junior and senior English majors. Topics will vary according to student interest and instructor expertise. May be taken twice for credit with different topics.</td>
</tr>
<tr>
<td>LIT 4233</td>
<td>Postcolonial Literature (3) AS ENG</td>
<td></td>
<td>ENG</td>
<td>This course is a critical introduction to Postcolonial Literature. We will strive to understand the colonial encounter as it has shaped and continues to shape global modernity and some of the new literature in its cultural and historical contexts.</td>
</tr>
<tr>
<td>LIT 4386</td>
<td>British and American Literature by Women 6A (3) AS ENG</td>
<td></td>
<td>ENG</td>
<td>Survey of women's literary tradition in England and America from the seventeenth century to the present. Thematic focus includes self, marriage, sexuality, madness, race and generations. Writing intensive.</td>
</tr>
<tr>
<td>LIT 4930</td>
<td>Selected Topics in English Studies (1-4) AS ENG</td>
<td></td>
<td>ENG</td>
<td>The content of the course will be governed by student demand and instructor interest. It will examine in depth a recurring literary theme or the work of a small group of writers. Special courses in writing may also be offered under this title. May be taken twice for credit with different topics.</td>
</tr>
<tr>
<td>LIT 4931</td>
<td>Studies in World Literature and Culture (3) AP ENG</td>
<td></td>
<td>ENG</td>
<td>PR: ENC 1102, with a grade of C- or better. Course examines how social, political, cultural, economic, and intellectual issues intersect with one particular theme or issue from a global perspective; requires intense reading, a grasp of current literary scholarship, and rigorous written exercises.</td>
</tr>
<tr>
<td>LNW 4501</td>
<td>Seneca and Roman Philosophy (4) AS WLE</td>
<td></td>
<td>WLE</td>
<td>PR: Basic knowledge of Latin. Readings in the philosophic writings of Lucius Annaeus Seneca, together with an examination of Stoic, Epicurean, and Eclectic thought.</td>
</tr>
<tr>
<td>LNW 4644</td>
<td>Cicero (4) AS WLE</td>
<td></td>
<td>WLE</td>
<td>PR: Basic knowledge of Latin. Readings in the epistles of Cicero.</td>
</tr>
<tr>
<td>LNW 4654</td>
<td>Horace (4) AS WLE</td>
<td></td>
<td>WLE</td>
<td>PR: Basic knowledge of Latin. Readings in the Odes and Epodes of Horace: study of the Ode's tradition.</td>
</tr>
<tr>
<td>LNW 4900</td>
<td>Directed Reading (1-4) AS WLE</td>
<td></td>
<td>WLE</td>
<td>Departmental approval required.</td>
</tr>
<tr>
<td>LNW 4930</td>
<td>Selected Topics (4) AS WLE</td>
<td></td>
<td>WLE</td>
<td>Study of an author, movement, or theme.</td>
</tr>
<tr>
<td>LNW 5900</td>
<td>Directed Reading (1-4) AS WLE</td>
<td></td>
<td>WLE</td>
<td>Departmental approval required. S/U.</td>
</tr>
<tr>
<td>LNW 5934</td>
<td>Selected Topics (4) AS WLE</td>
<td></td>
<td>WLE</td>
<td>Study of an author, movement, or theme.</td>
</tr>
<tr>
<td>MAA 4211</td>
<td>Intermediate Analysis I 6A (3) AS MTH</td>
<td></td>
<td>MTH</td>
<td>PR: MAC 2313 and MAS 3105. Sequences, series, metric spaces, continuity, differentiation.</td>
</tr>
<tr>
<td>MAA 4212</td>
<td>Intermediate Analysis II 6A (3) AS MTH</td>
<td></td>
<td>MTH</td>
<td>PR: MAA 4211. Riemann-Stieltjes integration, uniform convergence, and related topics.</td>
</tr>
<tr>
<td>MAA 4402</td>
<td>Complex Variables 6A (3) AS MTH</td>
<td></td>
<td>MTH</td>
<td>PR: MAP 2302 or CI. No credit for students with credit in MAA 5405. Complex numbers, Cauchy-Riemann equations, analytic and conformal functions, power series, Cauchy Theorem, Cauchy Integral Formula, residue theory.</td>
</tr>
<tr>
<td>MAA 5306</td>
<td>Real Analysis I (3) AS MTH</td>
<td></td>
<td>MTH</td>
<td>PR: MAA 4211. Riemann-Stieltjes integrals, uniform convergence, Fourier series, Lebesgue measure and integration on R.</td>
</tr>
<tr>
<td>MAA 5307</td>
<td>Real Analysis II (3) AS MTH</td>
<td></td>
<td>MTH</td>
<td>PR: MAA 5306. Metric spaces, Banach spaces, and function spaces; measure and integration on abstract spaces.</td>
</tr>
<tr>
<td>MAA 5405</td>
<td>Applied Complex Analysis (3) AS MTH</td>
<td></td>
<td>MTH</td>
<td>PR: CI. Complex numbers, analytic and harmonic functions. Series. Contour integrals, residue theory. Conformal mappings. (A survey course emphasizing techniques and applications.)</td>
</tr>
</tbody>
</table>
MAC 1105 College Algebra 6A QM CAMA (3) AS MTH
PR: C (2.0) or better in MAT 1033, or 490 or better SAT Math score, or 21 or better ACT Math score, or 90 or better Elementary Algebra CPT score, or 40 or better College-Level Math CPT score. No credit for students with prior credit for MAC 1140 or MAC 11 Concepts of the real number system, functions, graphs, and complex numbers. Analytic skills for solving linear, quadratic, polynomial, exponential, and logarithmic equations. Mathematical modeling of real life applications. College Algebra may be taken either for General Education credit or as preparation for a pre-calculus course.

MAC 1114 Precalculus Trigonometry 6A (2) AS MTH
PR: C (2.0) or better in MAC 1105, or 550 or better SAT Math Score, or 24 or better ACT Math Score. CP: MAC 1140. Angles, trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates.

MAC 1140 Precalculus Algebra 6A QM (3) AS MTH
PR: C (2.0) or better in MAC 1105, or 550 or better SAT Math Score, or 24 or better ACT Math Score. CP: MAC 1114. Review of functions and graphs. Analytic geometry including conic sections and rotation of axes, systems of equations including matrix algebra and determinants, sequences and series including Binomial Theorem.

MAC 1147 Precalculus Algebra and Trigonometry 6A QM CAMA (4) AS MTH
PR: C (2.0) or better in MAC 1105, or 550 or better SAT Math Score, or 24 or better ACT Math Score, or 60 or better College-Level Math CPT score. No credit for students with credit for either MAC 1140 or MAC 1114. This is an accelerated combination of MAC 1140 and MAC 1114; this course is best for students who have already seen some trigonometry. See the descriptions of MAC 1140 and MAC 1147.

MAC 2233 Business Calculus 6A QM CAMA (3) AS MTH
PR: C (2.0) or better in MAC 1105, or C (2.0) or better in MAC 1140, or C (2.0) or better in MAC 1147, or 590 or better SAT Math Score, or 26 or better ACT Math score, or 78 or better College-Level Math CPT score. No credit for mathematics majors. Linear equations and functions, mathematics of finance, differentiation and integration of algebraic, exponential and logarithmic functions with applications to business, finance and economics.

MAC 2241 Life Sciences Calculus I 6A QM CAMA (3) AS MTH
PR: C (2.0) or better in MAC 1114, or C (2.0) or better in MAC 1147, or 650 or better SAT Math score, or 29 or better ACT Math score, or 90 or better College-Level Math CPT score, and knowledge of trigonometry. No credit for math majors. Differentiation and integration of algebraic, trigonometric, exponential, and logarithmic functions with applications to life sciences.

MAC 2242 Life Sciences Calculus II 6A QM CAMA (4) AS MTH
PR: C (2.0) or better in MAC 2241. No credit for Mathematics majors or students with credit in MAC 2282 or MAC 2312. Techniques of integration, differential equations, functions of several variables, series and Taylor polynomials.

MAC 2281 Engineering Calculus I 6A QM CAMA (4) AS MTH
PR: C (2.0) or better in MAC 1114 and C (2.0) or better in MAC 1140, or C (2.0) or better in MAC 1147, or 650 or better SAT Math score, or 29 or better ACT Math score, or 90 or better College-Level Math CPT score, and knowledge of trigonometry. No credit Differentiation, limits, differentials, extremes, indefinite integral. No credit for mathematics majors.

MAC 2282 Engineering Calculus II 6A QM CAMA (4) AS MTH
PR: C (2.0) or better in MAC 2281. No credit for students with credit in MAC 2242 or MAC 2312. Definite integral, trigonometric functions, log, exponential, series, applications.

MAC 2283 Engineering Calculus III 6A (4) AS MTH
PR: C (2.0) or better in MAC 2282 or CC. Techniques of integration, numerical methods, analytic geometry, polar coordinates, Vector algebra, applications.

MAC 2311 Calculus I 6A QM CAMA (4) AS MTH
PR: C (2.0) or better in MAC 1114 and C (2.0) or better in MAC 1140, or C (2.0) or better in MAC 1147, or 650 or better SAT Math score, or 29 or better ACT Math score, or 90 or better College-Level Math CPT score, and knowledge of trigonometry. Differentiation, limits, differentials, extremes, indefinite integral.

MAC 2312 Calculus II 6A QM CAMA (4) AS MTH
PR: C (2.0) or better in MAC 2311 or CC. No credit for students with credit in MAC 2242 or MAC 2282. Antiderivatives, the definite integral, applications, series, log, exponential and trig functions.

MAC 2313 Calculus III 6A (4) AS MTH
PR: C (2.0) or better in MAC 2312 or CC. No credit for students with credit in MAC 2283. Integration, polar coordinates, conic sections, vectors, indeterminate forms and proper integrals.

MAD 2104 Discrete Mathematics (3) HM EIT
This course covers set theory, logic, proofs, counting techniques, and graph theory.

MAD 3107 Discrete Mathematics 6A (3) AS MTH
PR: MAC 2281 or MAC 2311. No credit for Mathematics majors. An introduction to some of the aspects of discrete mathematics that are fundamental to digital computing. Topics include sets, numbers, algorithms, Boolean algebra, computer arithmetic, elementary combinatorics and an introduction to graph theory.

MAD 4401 Numerical Analysis I 6A (3) AS MTH
PR: MAP 2302 and MAS 3105. Numerical solution
of algebraic and transcendental equations, interpolation and polynomial approximation, numerical differentiation and integration, numerical solution of differential equations.

MAD 4402 Numerical Analysis II (3) AS MTH

MAD 4504 Theory of Computation 6A (3) AS MTH

MAD 5101 LISP: Programming With Algebraic Applications (3) AS MTH
PR: MHF 5306 or MAD 6510 or MAS 5311 or CI. Programming in LISP, functional languages, foundations of Lambda Calculus and algebraic applications (theorem proving and game playing).

MAD 5305 Graph Theory (3) AS MTH
PR: MAS 3105 or CI. Brief introduction to classical graph theory (4-color theorem, etc.), directed graphs, connected digraphs, condensations, incidence matrices, Polya's Theorem, networks.

MAE 3224 Middle School Mathematics Methods Course 1 (3) ED EDI
PR: Admission to the College of Education and Middle School Mathematics Education Program or permission of instructor. This course provides prospective middle school teachers with initial skills to develop an inquiry-based learning environment that facilitates high academic achievement for all students, focusing on curriculum and learning at the task and lesson level.

MAE 3225 Middle School Mathematics Methods Course 2 (3) ED EDI
PR: Admission to the College of Education and Successful completion of Middle School Mathematics Residency Program Methods Course 1 or permission of instructor. This course provides prospective middle school teachers with advanced skills to develop an inquiry-based learning environment that facilitate high academic achievement for all students, focusing on assessment and learning at unit and semester levels.

MAE 3941 Practicum I: Middle School Mathematics Education (1-3) ED EDI
PR: Admission to the College of Education and Middle School Mathematics Education Program. The candidate will spend six hours a week in an assigned school, becoming acquainted with the middle grades classroom, and providing supervised one-on-one, small group and whole group instruction and will attend university seminars.

MAE 3942 Practicum II: Middle School Mathematics Education (1-3) ED EDI
PR: Admission to the College of Education and Middle School Mathematics Program, and successful completion Semester I with no grades lower than a C. Candidates will spend nine hours a week in an assigned school, in a grade level or subject area other than the one completed in Practicum I, providing supervised one-on-one, small group, and whole group instruction, and will attend university seminars.

MAE 4310 Teaching Elementary School (K-6) Mathematics I (3) ED EDE
PR: Admission to College of Education and two college level mathematics courses. Methods for teaching number ideas, computation skills, and mathematical reasoning in elementary (K – 6) classrooms.

MAE 4314 Mathematics for all Students (4) EP EDE
PR: EEX 4012 and MAC 1105 or higher minimum grade C-. CR: EDG 4943. Elementary, ESOL, & Exceptional Student Education methods for teaching, diagnosing, and remediating problem solving; numeration systems; whole number concepts and computation; fraction, decimal, and percent concepts and computation. Includes research perspectives.

MAE 4320 Teaching Mathematics in the Middle Grades (3) ED EDI
PR: Admission to Mathematics Education Program or CI. This course provides prospective middle school teachers the opportunity to develop concepts, skills, and pedagogical procedures for effective teaching of mathematics in grades 5-9.

MAE 4326 Teaching Elementary School (K-6) Mathematics II (3) ED EDE
PR: MAE 4310. Methods for teaching informal geometry, measurement, probability, statistics, and algebraic thinking for elementary school (K – 6) classrooms.

MAE 4330 Teaching Senior High School Mathematics (3) ED EDI
PR: MAE 4320 or CI. The course is designed to prepare the student for a successful internship experience as well as an induction to teaching mathematics in the high schools of today. The experiences help bridge the perceived gap between theory and practice.

MAE 4551 Reading the Language of Mathematics (3) ED EDI
PR: MAE 4320 or CI. This course provides an opportunity to develop concepts, skills and procedures for effective communication (reading, writing, listening and speaking) in the mathematics curriculum. The State DOE required preparation in basic reading is covered.

MAE 4652 Technology for Teaching Secondary School Mathematics (3) ED EDI
PR: Admission to Mathematics Education Program or CI. This course provides prospective teachers an opportunity to develop concepts, skills, and
COURSE DESCRIPTIONS

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in instructional procedures for integrating technology for teaching in secondary mathematics classrooms. The course is restricted to majors.

MAE 4653 Technology for Teaching Secondary School Mathematics II (3) ED EDI
PR: MAE 4652 or CI. This course provides prospective mathematics teachers with an opportunity to develop concepts, skills and instructional procedures for effectively integrating technology into teaching algebra and data analysis into the secondary mathematics curriculum.

MAE 4909 Directed Study: Mathematics Education (1-3) ED EDI
PR: Senior Standing and CI. To extend competency in teaching field.

MAE 4936 Senior Seminar in Mathematics Education CPST (3) ED EDI

MAE 4940 Internship: Mathematics Education (1-12) ED EDI
CR: MAE 4936. S/U only. One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours.

MAE 4941 Internship I: Middle School Mathematics Education (1-12) ED EDI
PR: Admission to the College of Education and Middle School Mathematics Program, successful completion Semesters I, II, and Summer Session with C or better. Candidates will spend each day of the semester in an assigned school implementing acquired knowledge from Practicum I and II, with increased responsibility for planning instruction and assessing student learning, and will attend internship seminars.

MAE 4942 Internship II: Middle School Mathematics Education (1-12) ED EDI
PR: Admission to the College of Education and Middle School Mathematics Program, successful completion Semesters I, II, III, and Summer Session with C or better. Internship II is a continuation of Internship I. Candidates will spend each day of the semester co-teaching in the same school, with responsibility for planning instruction and assessing impact on student learning, and will attend internship seminars.

MAE 4945 Practicum in Mathematics Education (3) ED EDI
PR: MAE 4320 and MAE 4652. This course provides students an opportunity to demonstrate their ability to plan, deliver instruction, and reflect upon the effectiveness of their teaching in secondary school mathematics classrooms. Course is restricted to majors.

MAN 3025 Principles of Management (3) BA MAN
PR: Junior standing. Examines intrapersonal, interpersonal, group/team, organizational, and environmental (both stakeholder and societal) factors influencing the management task.

MAN 3093 Healthcare Management (3) BP MAN
PR: MAN 3025. The course covers research literature relevant to organizational functioning including behavioral effects of power and authority, formal organization, structural variation, leadership, motivation, and communication.

MAN 3301 Human Resource Management (3) BA MAN
PR: Senior Standing and CI. To extend competency in the management role within the healthcare industry and will focus upon the fundamental building blocks necessary to manage a firm that provides high quality healthcare delivery.

MAN 3401 Industrial Relations (3) BA MAN
PR: MAN 3025. The course covers research literature relevant to organizational functioning including behavioral effects of power and authority, formal organization, structural variation, leadership, motivation, and communication.

MAN 3402 Employment Laws (3) BA MAN
PR: MAN 3025. The course covers research literature relevant to organizational functioning including behavioral effects of power and authority, formal organization, structural variation, leadership, motivation, and communication.

MAN 4063 Management Ethics (3) BA MAN
PR: MAN 3025. Examines moral and ethical responsibilities of managing organizations at the personal, interpersonal, and organizational level.

MAN 4129 Theory and Practice of Management Skills (3) BA MAN
PR: MAN 3025. Examines moral and ethical responsibilities of managing organizations at the personal, interpersonal, and organizational level.

MAN 4280 Organizational Development and Change (3) BA MAN
PR: MAN 3024 or CI. A lab course where students experimentally apply behavioral science techniques in an “action-research” framework to the cycle of planned change so as to build a more effective organization.

MAN 4282 Organizational Assessment (3) BA MAN
PR: MAN 3024. The analysis and measurement of factors which influence organizational effectiveness and the quality of work life. Data based cases will be used by students to assess managerial and supervisory skills and to measure organizational functioning and work design.

MAN 4402 Employment Laws (3) BA MAN
Federal and state regulation of the employment relationship, including wage and hour laws; EEO; affirmative action programs; employee benefits; insurance; workers' compensation, safety, health, employee's personal rights; collective bargaining legislation.
COURSE DESCRIPTIONS

MAN 4430 Seminar in Negotiations and Administration of Labor Agreements (3) BA MAN
Case studies in contract negotiation, administration, grievance settlement, and arbitration. Assumes familiarity with industrial relations system.

MAN 4441 Negotiation and Conflict Resolution (3) BA MAN
PR: MAN 3025, MAN 3240. Examines what conflict is, how it occurs, and how it can be managed through negotiation, particularly in the workplace.

MAN 4504 Operations Management: A Systems Approach (3) BA QMB
PR: ISM 3431 or equivalent. Studies the problems of "operations" in all types of enterprises in both the public and private sectors. Emphasis is placed on the application of various decision science methodologies to problem situations.

MAN 4600 International Management (3) BA MAN
PR: MAN 3025, Senior Standing or CI. Examines the effects of international cultural differences on business practices within and outside the United States and provides methods to build synergies and establish/enhance competitive advantage via those differences.

MAN 4631 Global Perspectives and Management Choices (3) BA MAN

MAN 4702 Disaster Recovery and Business Continuity Planning (3) AS EIT
PR: Electives may be taken at any time after completion of the first semester. When organizations are interrupted by disasters, accidents, or natural events, a loss of money, data, and/or productivity occurs. The extent to which the loss affects the organization's health depends on its ability to deal with these disruptions.

MAN 4737 Integrated Management Applications (3) BA MAN
PR: MAN 3240; MAN 3301; MAN 4930 Negotiation, MAN 4600; MAN 4282; MAN 4063. This Management course integrates the major topics of management. Students will acquire a broad view of organizations, learning to analyze organizational strengths and weaknesses, and to recommend appropriate actions for improvement.

MAN 4802 Entrepreneurship and Small Business Management (3) BA MAN
PR: ACG 2021, ACG 2071, MAR 3023, or CI. Study of the factors involved in starting and managing a small- to medium-sized business. Emphasis on conduct of pre-business feasibility study, start-up of business, successful management of the firm, and

MAN 4820 Negotiation and Conflict Resolution (3) BA MAN
PR: MAN 4802 or CI. Field application in small business settings by (a) analyzing an on-going small business and developing recommendations for making improvements; or (b) conducting a feasibility study for a new enterprise and developing a strategy for implementation if favorable.

MAN 4905 Independent Study (1-3) BA MAN
PR: CI. S/U only. Specialized independent study determined by the students needs and interests.

MAN 4930 Selected Topics in Management (1-3) BA MAN
Topics to be selected by instructor and department chairperson for pertinent Management issues.

MAN 4931 Independent Research (1-4) BA MAN
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

MAN 4970 Management Honors Thesis (3) BA MAN
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

MAP 2302 Differential Equations I (3) AS MTH
PR: MAC 2283 or MAC 2313. First order linear and nonlinear differential equations, higher order linear equations, applications.

MAP 2304 Applied Mathematics (3) AS MTH
PR: MAP 2302 and MAS 3105. Linear and nonlinear programming, the simplex method, duality and sensitivity, constrained and unconstrained optimization.

MAP 3531 Ordinary Differential Equations I (3) AS MTH
PR: MAP 2302 and MAA 4211, or CI. Existence and uniqueness theory, properties of solutions, linear systems, stability theory. Sturm-Liouville theory.

MAP 517 Ordinary Differential Equations II (3) AS MTH
PR: MAP 516 and MAA 5307 or CI. Topics selected from fixed point theory, comparison theory, oscillation theory, Poincare-Bendixson Theory, Lyapunov functions, eigenfunction expansions.

MAP 5345 Applied Partial Differential Equations (3) AS MTH
PR: MAP 5407 or CI. Separation of variables, the heat equation, wave equation, Laplace's equation, classification, Green's functions with emphasis on applications.

MAP 5407 Methods of Applied Mathematics (3) AS MTH
PR: MAP 2302 or CI. Sturm-Liouville theory, Fourier series, Green's functions, matrix methods for linear systems of ordinary differential equations, and topics from calculus of variations, control theory, numerical solutions of differential equations.
MAR 2931 Selected Topics in Marketing (1-4) BA MKT
Not available for credit to upper-level students who have been admitted to the College of Business. Topics to be selected by department chairman.

MAR 3023 Basic Marketing (3) BA MKT
PR: Junior standing. Survey of the marketing of goods and services within the economy. Attention is paid to the impact of marketing on other functional areas of business as well as society.

MAR 3400 Professional Selling (3) BA MKT
PR: MAR 3023 or CI. A study of the stages of the professional selling process, and the role of sales in today's marketing environment. Emphasis on learning adaptive selling techniques and developing effective interpersonal communications skills. Sales careers are examined.

MAR 3613 Marketing Research (3) BA MKT
PR: QMB 2100, MAR 3023. A study of research methods and techniques applicable to problem solving in marketing. Attention is also given to defining information needs, determining the value of information, interpreting and reporting information for use in marketing decision making.

MAR 3711 Sports Marketing (3) BP MKT
PR: MAR 3023 or CI. Examines basic marketing principles applied to sports industry: emphasis-understanding marketing concepts translate to industry practices; Topics: unique nature of sports marketing, identification of consumers/behaviors, licensing/sponsorship, & strategy.

MAR 3823 Marketing Management (3) BA MKT
PR: MAR 3023. An applications oriented study of the marketing function at an intermediate level. Emphasis upon techniques for analysis and problem-solving. Builds upon the principles and concepts learned in MAR 3023, and provides a strong foundation for the remaining courses in the marketing curriculum.

MAR 4156 International Marketing (3) BA MKT
PR: MAR 3023. A study of procedures and problems associated with establishing marketing operations in foreign countries. Includes the institutions, principles and methods involved in the solution of these business problems as well as the effects of national differences on business practices and buyer behavior.

MAR 4213 Logistics and Physical Distribution Management (3) BA MKT
PR: MAR 3023 or CI. A study of logistics in the marketing of goods and services. Includes a description and analysis of the logistics environment as well as components of the physical distribution system with emphasis on information flows and the application of quantitative techniques used in establishing and controlling customer service levels.

MAR 4231 Retailing Management (3) BA MKT
PR: MAR 3023. A comprehensive study of the retailing structure, institutions, and environment. Includes pertinent management theories and practices in analyzing, organizing, planning and controlling retail operations, both large and small.

MAR 4333 Promotion Management (3) BA MKT
PR: MAR 3023 or CI. A study of the role of promotion in the marketing program of the firm, including the promotional tools available to the marketing manager and the various types of decisions made in the promotional area. Decision making process in development of a promotional program is emphasized.

MAR 4403 Sales Management (3) BA MKT
PR: MAR 3023 or CI. A study of sales management and strategy as a subset of marketing management. Emphasis is placed on developing the problem-solving and decision-making skills required of the sales manager in the modern market-oriented company.

MAR 4453 Business to Business Marketing (3) BA MKT
PR: MAR 3023. A study of the marketing of goods and services to the industrial and institutional sectors. Includes characteristics of the markets and channels of distribution, sales, management, research and promotional practices, marketing policies and strategies.

MAR 4503 Buyer Behavior (3) BA MKT
PR: MAR 3023. A study of the basic concepts of buyer behavior, including pre- and post-purchase attitudes and behavior patterns, information processing relating to the functional areas of marketing and the buyer's decision-making process. Managerial applications to marketing are emphasized.

MAR 4712 Healthcare Marketing (3) BP MKT
A foundational knowledge of the principles of marketing and their application in healthcare administration including the concepts of marketing strategy, customer/patient orientation, products and services, promotion, distribution and pricing issues.

MAR 4824 Marketing Management Problems (3) BA MKT
PR: Senior Standing, MAR 3823, MAR 3613, MAR 4333. The integration of marketing knowledge applied to decision roles in managing the total marketing effort of firms, and coordination with other major functional areas on specific problems.

MAR 4903 Independent Research (1-3) BA MKT
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

MAR 4905 Independent Study (1-3) BA MKT
PR: CI. S/U only. Specialized independent study determined by the students' needs and interests.

MAR 4933 Selected Topics In Marketing (1-3) BA MKT
Topics to be selected by instructor and department chairperson.

MAR 4970 Marketing Honors Thesis (3) BA MKT
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to
develop explanations or solutions to academically interesting business problems or opportunities.

**MAS 3105 Linear Algebra 6A (3) AS MTH**
CP: MGF 3301 and either MAC 2283 or MAC 2313.
Linear systems, matrix algebra, vector spaces, linear independence, inner product spaces, Gram-Schmidt algorithm, linear transformations and matrix representations, determinants, eigenvalues, diagonalization, quadratic forms.

**MAS 3108 Algebra Connections (3) AS MTH**
PR: Calculus I. This course will provide prospective teachers with experiences that will help them develop the specialized content knowledge needed to support the teaching of mathematics in middle level education.

**MAS 3205 Number Concepts Connections (3) AS MTH**
PR: Calculus I. This course will provide prospective teachers with experiences in number theory that will help them develop the specialized content knowledge needed to support the teaching of mathematics in middle level education.

**MAS 4156 Vector Calculus 6A (3) AS MTH**
PR: MAS 3105 and either MAC 2313 or MAC 2283. Implicit function and inverse function theorems, parameterized surfaces, submanifolds on Euclidean space, exterior calculus of differential forms, differentiation of vector fields, line and surface integrals, Stokes' Theorem, elementary continuous groups.

**MAT 1033 Intermediate Algebra (3) ED EDI**
PR: MAT 0024 with a grade of "C" or better or appropriate score on the Scholastic Aptitude Test, Mathematics (SATM). This course provides students with an opportunity to develop algebraic knowledge needed for further study in several fields such as engineering, business, science, computer technology, and mathematics.

**MAT 1033L Intermediate Algebra Laboratory (1) ED EDI**
PR: MAT 1033. This course provides students with an opportunity to develop algebraic knowledge needed for further study in several fields such as engineering, business, science, computer technology, and mathematics.

**MAT 6146 Selected Topics 6A (1-4) AS MTH**
PR: Admission to Mathematics Honors Program and CC. S/U only. Course restricted to mathematics majors.

**MAT 4906 Independent Study 6A (1-4) AS MTH**
PR: CI. S/U only. Specialized independent study determined by the student's needs and interests. The written contract required by the College of Arts and Sciences specifies the regulations governing independent study.

**MAT 4930 Selected Topics in Mathematics 6A (1-4) AS MTH**
PR: CI. The course content will depend on the interest of faculty members and student demand.

**MAT 4937 Mathematics Majors Seminar 6A (1) AS MTH**
PR: MAS 4301.

**MAT 4970 Mathematics Senior Thesis 6A (3) AS MTH**
PR: Admission to Mathematics Honors Program and CC. S/U only. Course restricted to mathematics majors.

**MAT 5932 Selected Topics (1-4) AS MTH**
PR: CI. Each course covers a single topic outside the usual curriculum.

**MCB 2000 Microbiology for Nursing and other Healthcare Professionals (3) NR NUR**
Basics of microbiology for health professionals. Focus on disease states and the role of bacteria, viruses, fungi, rickettsiae and other pathogenic organisms.

**MCB 2000L Microbiology Lab for Nursing and other Healthcare Professionals (1) NR NUR**

**MCB 3020C General Microbiology (4) AS BCM**
PR: BSC 2010, BSC 2010L, BSC 2011, BSC
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Advisory Notes</th>
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</thead>
<tbody>
<tr>
<td>MET 2010</td>
<td>Weather Studies</td>
<td>4</td>
<td>AS GPY</td>
</tr>
<tr>
<td>MCB 3410</td>
<td>Cell Metabolism</td>
<td>3</td>
<td>This course will provide a broad framework and overview of major metabolic pathways that occur in living cells with emphasis on integration and regulation of those pathways. For majors and non-majors.</td>
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<tr>
<td>MCB 4115C</td>
<td>Determinative Bacteriology</td>
<td>5</td>
<td>AS BCM</td>
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<tr>
<td>MCB 4302</td>
<td>Ecology of Infectious Diseases</td>
<td>3</td>
<td>AS BIN</td>
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<tr>
<td>MCB 4313</td>
<td>Industrial Microbiology and Biotechnology</td>
<td>3</td>
<td>AS BCM</td>
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<tr>
<td>MCB 4320</td>
<td>Molecular Microbiology</td>
<td>3</td>
<td>AS BCM</td>
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<tr>
<td>MCB 4404</td>
<td>Microbial Physiology and Genetics</td>
<td>3</td>
<td>AS BIN</td>
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<tr>
<td>MCB 4404L</td>
<td>Microbial Physiology and Genetics Laboratory</td>
<td>1</td>
<td>AS BIN</td>
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<tr>
<td>MCB 4503</td>
<td>Virology</td>
<td>3</td>
<td>AS BCM</td>
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<tr>
<td>MCB 4905</td>
<td>Microbiology Undergraduate Research</td>
<td>1-4</td>
<td>AS BCM</td>
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<tr>
<td>MCB 4933</td>
<td>Selected Topics in Microbiology</td>
<td>1-3</td>
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<tr>
<td>MCB 5206</td>
<td>Public Health and Pathogenic Microbiology</td>
<td>3</td>
<td>AS BCM</td>
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<tr>
<td>MCB 5208</td>
<td>Cellular Microbiology</td>
<td>3</td>
<td>AS BCM</td>
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<tr>
<td>MCB 5555</td>
<td>Applied and Environmental Microbiology</td>
<td>3</td>
<td>AS BIN</td>
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<tr>
<td>MCB 5815</td>
<td>Medical Mycology</td>
<td>3</td>
<td>AS BCM</td>
</tr>
<tr>
<td>MET 2010</td>
<td>Weather Studies</td>
<td>4</td>
<td>AS GPY</td>
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</table>
systems.

**MET 4002 Climatology (4) AS GPY**
PR: GEO 2200 or CI. An introductory survey of climatology. A qualitative study of the dynamics and general circulation of the atmosphere. Surface and upper level atmosphere linkages in the mid latitudes will be examined. Discussion of the regional climatic patterns and anomalies throughout the world.

**MET 4012C Meteorology (4) AS GPY**
PR: GEO 2200 or CI. The earth's atmosphere and its processes; weather forecasting and analysis; instrumentation.

**MET 4106 Climate Studies (4) AS GPY**
PR: GEO 2200 or MET 4012C or MET 2010. Information will be provided on the climate system, the scientific principles that govern climate, its variability and change with implications for society and risk management strategies aimed at countering negative impacts of global climate change.

**MGF 1106 Finite Mathematics 6A QM CAMA (3) AS MTH**
PR: C (2.0) or better in MAT 1033, or 440 or better SAT Math score, or 19 or better ACT Math Score, or 72 or better Elementary Algebra CPT score. Concepts and analytical skills in areas of logic, linear equations, linear programming, mathematics of finance, permutations and combinations, probability, and descriptive statistics.

**MGF 1107 Mathematics for Liberal Arts 6A QM CAMA (3) AS MTH**
PR: C (2.0) or better in MAT 1033, or 440 or better SAT Math score, or 19 or better ACT Math Score, or 72 or better Elementary Algebra CPT score. This terminal course is intended to present topics which demonstrate the beauty and utility of mathematics to the general student population. Among the topics which might be included are: Financial Mathematics, Linear and Exponential Growth, Numbers and Number Systems, Elementary Number Theory, Voting Techniques, Graph Theory, and the History of Mathematics.

**MGF 3301 Bridge to Abstract Mathematics 6A QM (3) AS MTH**
CP: MAC 2313 or MAC 2283. Techniques and logic of the construction of proofs. Topics will be selected from propositional logic, set theory, relations and functions, equivalence relations, Boolean algebra, cardinality, and limits.

**MGF 4403 The Early History of Mathematics 6A MW (3) AS MTH**
PR: MAC 2312 and upper-level standing. A study of the history and development of mathematics and its cultural impact from the formation of number systems to the Renaissance.

**MGF 4406 The History of Modern Mathematics 6A MW (3) AS MTH**
PR: MAC 2313. Traces the development of mathematical ideas in Western culture.

**MHS 3204 Fundamentals of Applied Behavior Analysis (3) BC CFS**
PR: Junior standing or higher. The Fundamentals of Applied Behavior Analysis (ABA) course provides the student with information in the form of lectures, demonstrations, and practical exercises on the basic principles and procedures of the field of ABA.

**MHS 3411 Multidisciplinary Behavioral Healthcare Services (3) BC MHL**
PR: CI or Junior Standing minimum. Working in behavioral healthcare requires the application of specific knowledge and skills. This open enrollment course offers a practical multidisciplinary look at service delivery. Students will examine their career and educational goals in context.

**MHS 4002 Behavioral Health Systems Delivery (3) BC MHL**
PR: MHS 3411 This course is designed to provide students with an understanding of the significant issues and trends in behavioral health delivery systems in America. Four major areas will be emphasized: 1) history and legislation; 2) systems delivery; 3) programs and policies; 4) selected at-risk populations. This course is not repeatable for credit and is open to non-minors in behavioral healthcare.

**MHS 4022 Adult Psychopathology in the Community (3) BC MHL**
This course will review the experience of persons with mental illness in public service settings. Justice involvement, co-occurring disorders, funding streams, and evidence based practices will be discussed. Not restricted to majors; not repeatable.

**MHS 4023 Recovery Oriented Mental Health Services (3) BC MHL**
This course describes the principles and practices of services that promote recovery and rehabilitation for individuals with severe mental illnesses, with special focus on integration of mental health consumers into meaningful community roles.
MHS 4052 Human Relations Skills in Counseling
MW (3) ED EDF
Introduction to the theory of human relations dynamics and development of skills required for effective interpersonal relations. Lecture sessions and experiential training.

MHS 4202 Behavioral Assessment and Intervention Planning (3) BC CFS
PR: CLP 4414. A course on how to identify functions of behavior; collect and analyze data; identify and conduct approaches for functional assessment; identify, select, and implement functional interventions; and identify monitoring procedures and ethical considerations.

MHS 4203 Practical Skills-Children's Behavioral Healthcare (3) BC CFS
PR: MHS 4490 Students will apply system of care values and principles to children's behavioral health services in the assessment of family needs and strengths, working with teams to achieve goals, and development, implementation and evaluation of support plans.

MHS 4206 Applied Behavioral Analysis in Autism and Development Disabilities (3) BC CFS

MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment (3) BC MHL
PR: MHS 3411 This course explores exemplary clinical practices in public behavioral health service delivery. Best or exemplary practices are defined as those that have both a track record and their efficacy has been empirically validated. Modules may begin with a historical perspective of the treatment of a specific population or a treatment strategy but will primarily focus on emerging methodologies.

MHS 4412 Research Methods and Ethical Issues in Behavior Analysis (3) BC CFS
PR: MHS 4202. How to identify ethical principles and practices in behavior analysis as well as how to implement various single subject research and group designs; write literature reviews and research proposals; and complete the IRB process.

MHS 4425 Field Experience in Behavioral Healthcare CPST (3) BC MHL
PR: MHS 3411, MHS 4002, MHS 4408 This experiential class allows the student to observe and participate with multidisciplinary staff of a provider agency. The student will attend team meetings, observe individual, group, and case management services. Assignments will be made to maximize the student's time investment in the field. Observations and experiences will be discussed in biweekly class meetings. Students are required to spend 120 hours (an average of 8 hours per week for 15 weeks) in an agency. Advisor approval required two months in advance of semester.

MHS 4434 Behavioral Health and the Family (3) BC REH
PR: Jr./Sr. Standing. This course covers ways that illness/injury affect the family of a person who is ill or injured; how family relations/behavioral patterns affect healing and return to good health; and how BH professionals serve families struggling with an ailing loved one.

MHS 4452 Co-Occurring Disorders (3) BC MHL
This unrestricted course is designed to introduce the topic of co-occurring disorders, impart their knowledge and understanding, and teach skills needed to apply for and obtain employment in behavioral healthcare. It is not repeatable for credit.

MHS 4463 Suicide Issues in Behavioral Health (3) BC CFS
Students explore the psychological and social factors contributing to suicide-related behaviors. Lectures, group activities, and guest speakers help students better understand the dynamics of suicide and the processes of assessment and interventions.

MHS 4490 Behavioral Healthcare Issues for Children (3) BC CFS
Students explore children's mental health field & systems of care for children and their families. Lectures, group activities, & guest speakers help examine childrens mental health treatment, service delivery, case management, & wraparound processes.

MHS 4703 Legal, Ethical and Professional Issues in Behavioral and Community Sciences 6A WRIN (3) BC MHL
Behavioral healthcare professionals are expected to adhere to professional codes and respect legal rights of clients. Course investigates legal and ethical issues that influence the practice and helps students develop skills in ethical decision-making.

MHS 4731 Writing for Research and Publication in Behavioral and Community Sciences 6A WRIN (3) BC MHL
This course is a writing intensive exit course that fulfills the Gordon rule requirement. Students will develop a research problem statement, complete a literature review, and learn to prepare manuscripts for publication.

MHS 4741 Advanced Research Methods: Behav/Community Science (3) BC MHL
PR: Introduction to Statistics and Research Methods Application of research processes used in the interdisciplinary field of behavioral health including research design, quantitative and qualitative methods, measurement, report writing, dissemination, and grant writing. Open to all majors.

MHS 4905 Independent Study: Guidance and Counseling Education (1-4) ED EDF
PR: DPR. S/U only. Specialized independent study needed to apply for and obtain employment in behavioral healthcare. It is not repeatable for credit.

MHS 4906 Directed Study (1-4) BC MHL
Directed study. Student must have a contract with an instructor.
MHS 4912 Independent Research in Behavioral Health (1-4) BC MHL  
PR: 1 course in statistics; 1 course in research methods. Students will conduct an independent research project in behavioral health (mental health and/or substance abuse) under the guidance of a faculty mentor. May be repeated for maximum of 8 credits.

MHS 4931 Selected Topics (1-4) BC MHL  
The course content will depend on student demand and instructor’s interest. The course may be repeated for different topics up to 9 hours.

MHS 4943 Practicum Seminar in Applied Behavior (3) BC CFS  
PR/C MHS 4202 and Intervention Planning in ABA. How to find a quality placement in the community in order to become certified as an Assistant Behavior Analyst, navigate the Behavior Analyst Certification Board process, and receive training on current ABA technologies.

MHS 5020 Foundations of Mental Health Counseling (3) BC REH  
PR: CC. A skill-building course on the utilization of one’s self in mental health counseling relationships. Includes study of the origin, history, professional functions and current issues in the discipline of mental health counseling.

MHS 5480 Human Growth and Development (3) BC REH  
PR: RCS 5780, MHS 5020, Majors only. Human development theory as applied in psychotherapy and case management rehabilitation, mental health, and addiction settings.

MHS 5721 BRIDGE Proseminar I (2) BC MHL  
This course is designed to provide students with the necessary skills for successfully applying for and transitioning into a graduate training program in the social and behavioral sciences.

MHS 5722 BRIDGE Pro Seminar II (2) BC MHL  
PR: Bachelor’s Degree. Provide students with the skills for successfully transitioning to a graduate program in behavioral and social sciences. It will also provide knowledge that can be applied to the mentored research project being conducted as part of the BRIDGE certificate.

MHS 5745 Applied Qualitative Research Methods (3) BC MHL  
PR: Completion of an undergraduate research methods course or permission of the instructor. This course is designed to provide students with an understanding of applied qualitative research methods and to assist them where appropriate in applying these methods to their mentored research projects being conducted as part of the BRIDGE certificate.

MHS 5746 Applied Quantitative Research Methods (3) BC MHL  
PR: Completion of an undergraduate research course and an introductory statistics class or permission of the instructor. Reviews quantitative research methods while focusing on the application of such concepts in real research contexts preparing students to understand the nature assumptions processes and ethical application of quantitative methodology.

MHS 5889 BRIDGE Community Field Experience (2) BC MHL  
PR: Bachelor’s Degree. Provide students with the skills for successfully transitioning to a graduate program in behavioral and social sciences. It will also provide knowledge that can be applied to the mentored research project being conducted as part of the BRIDGE certificate.

MHS 5905 Directed Studies (1-4) ED EDF  
Independent studies on a selected topic.

MLS 4038 Introduction to Medical Technology (1-2) AS CHM  
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on principles and methods of medical technology, including professional ethics, safety regulations, quality control, phlebotomy, medical terminology, labor.

MLS 4860 Clinical Urinalysis and Body Fluids (2) AS CHM  
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on laboratory methodology and diagnosis using urine and other fluids such as semen, spinal, pleural, peritoneal, and joint fluids.

MLS 4861 Clinical Immunology (2) AS CHM  
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on the tissues, cells, and molecules of the human immune system, emphasizing the detection of serum antibodies and disease states.

MLS 4862 Clinical Hematology (6) AS CHM  
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on the cellular components of the blood as related to laboratory diagnosis and disease, including blood coagulation and morphological and biochemical aspects of blood cells.

MLS 4863 Clinical Microbiology (6) AS CHM  
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course emphasizing pathogens responsible for diseases in man, including morphology, physiology, and laboratory diagnosis of bacteria, fungi, parasites, and viruses.

MLS 4864 Clinical Chemistry (6) AS CHM  
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on the analysis of chemical substances found in the body as related to the diagnosis of human disease, including topics such as instrumentation, electrophoresis, therapeutic drug-monitoring assays, tumor markers, and toxicology.

MLS 4865 Clinical Immunohematology (6) AS CHM  
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on blood and tissue typing, including blood...
group systems, transfusion associated diseases, HLA testing, and preparation of blood and blood components for transfusion therapy.

**MLS 4866 Clinical Laboratory Management and Education (1) AS CHM**
- PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on concepts of laboratory management, including personnel staffing, reimbursements, quality assurance, and regulatory issues, and clinical education techniques, including writing, lecture presentation, and evaluation.

**MMC 2100 Writing for the Mass Media (3) AS COM**
- PR: Sophomore standing; 2.75 overall grade point average; grade of “C” in ENC 1101, ENC 1102, and passing score on English Diagnostic Test. An introduction to the basic skills of writing for the mass media with practice in library research, persuasive writing, and informational writing.

**MMC 2110 Scientific Writing (3) AP JMS**
- This 2000 level course will teach science majors to write clearly for their professional peers.

**MMC 3140 Web Publishing (3) AS COM**
- PR: JOU 2100, MMC 2100, MMC 3602, VIC 3001. Course is intended for those with little previous Web design/publishing experience. Course will introduce students to the basic topics, nomenclature, pragmatics, and mechanics involved in Web publishing. Restricted to majors; not repeatable for credit.

**MMC 3602 Mass Communications and Society SS HP CASB HHCP (3) AS COM**
- A survey of the history, theory, processes, and philosophy of mass communications and the mass media in the United States, and their relationship to the other major institutions of American society.

**MMC 4106 Science Writing (3) AP JMS**
- PR: CI. Will focus on techniques (angles, analogies, story structures, dialogue, narrative/plot) to translate complex scientific information into simplified but accurate stories for a non-scientific audience. NOT restricted to majors; not repeatable for credit.

**MMC 4120 Media Convergence (3) AP JMS**
- PR: JOU 2100, MMC 2100, MMC 3602. Students will learn to write for various media and develop news judgment across platforms. A project will include writing, digital photography and capturing audio for a Web news report. Restricted to majors; not repeatable for credit.

**MMC 4131 Video Storytelling (3) AP JMS**
- PR: MMC 2100, MMC 3602, VIC 3001. Students will be introduced to concepts and technologies needed to begin working with video as a medium of communication. Basic principles of video editing are taught with short and long form projects. Restricted to majors; not repeatable for credit.

**MMC 4200 History and Principles of Communications Law (3) AS COM**
- PR: MMC 2100 and MMC 3602. Historical and constitutional backgrounds of freedom and control of expression, statutory enactments, major court decisions and administrative rulings which affect print media, telecommunications, advertising, public relations, and new media.

**MMC 4203 Communication Ethics (3) AS COM**
- PR: MMC 2100 and MMC 3602 or CI. A study of the fundamental principles and philosophies of ethics and their application to the decision-making process in the various professions of mass communications.

**MMC 4420 Research Methods in Mass Communications (3) AS COM**
- PR: MMC 2100 and MMC 3602. An introduction to the theory and practice of quantitative and historical research methods as applicable to the study of media and mass communications. Emphasis on survey research, evaluation of data, and report writing.

**MMC 4503 Literary Journalism (3) AP JMS**
- PR: JOU 2100 and MMC 2100 or CI. Students will read, discuss, and analyze major works of literary journalism, demonstrating their ability to think critically about the works covered by submitting written commentaries about them.

**MMC 4900 Directed Reading in Mass Communications (1-3) AS COM**
- PR: Junior standing and CI. Reading and directed study in special topics.

**MMC 4910 Individual Research in Mass Communications (1-3) AS COM**
- PR: Junior standing and CI. The course provides means for a student to do independent study in an area not covered by a numbered course.

**MMC 4936 Selected Topics in Mass Communications Studies (1-3) AS COM**
- PR: MMC 2100, MMC 3602 and CI. Courses designed to meet current or specific topics of interest to instructors and students.

**MMC 4945 Media Internship-Seminar (3) AS COM**
- PR: CI and 15 hours in Mass Comm. courses and completion of an 8-12 week paid media internship with newspaper, broadcast station, or other media-related agency approved by the School. S/U only. Reports on experiences for discussion and evaluation.

**MIS 1001C Leadership and Personal Development (2) US MIS**
- Introduces to personal challenges & competencies critical to effective leadership; teaches personal development life skills relative to leadership, officership, & Army profession; focuses on gaining understanding of ROTC Program & its purpose in Army.

**MIS 1002C Introduction to Tactical Leadership (2) US MIS**
- Presents leadership basics (eg: setting direction, problem-solving, listening, briefs, giving feedback & use of effective writing skills); explores dimensions of leadership values, attributes, skills & actions in context of practical hands-on exercises.
**COURSE DESCRIPTIONS**

**MSL 2101C** Innovative Team Leadership (2) US MIS  
Explores creative & innovative tactical leadership strategies & styles. Develops knowledge of leadership values & attributes by understanding Army rank, structure, & duties. Broadens knowledge of land navigation & squad tactics.

**MSL 2102C** Foundations of Tactical Leadership (2) US MIS  
Examines challenges of leading tactical teams in complex current operating environment; highlights dimensions of terrain analysis, patrolling & operation orders; develops greater self-awareness, communication & team building skills.

**MSL 2900** Army Physical Readiness (1) US MIS  
This course will train students in the unique role of Army physical readiness in sustaining military operations. It will also prepare students to plan, prepare, and conduct military fitness training. Repeatable for 8 semesters, but only 4 credit hours will be counted toward the program.

**MSL 2901** Basic Leader Training (4) US MIS  
PR: CI. A 35 day internship at Fort Knox, Kentucky that incorporates a wide range of military subjects designed to build individual confidence through the accomplishment of tough and demanding training. Students completing the course may qualify for entry into the ROTC Advanced Course.

**MSL 3201C** Adaptive Team Leadership (3) US MIS  
Challenges to study, practice, & evaluate adaptive team leadership skills as demands of the ROTC LDAC are presented. Uses challenging scenarios to develop self-awareness & critical thinking skills. Provides specific feedback on leadership abilities.

**MSL 3202C** Leadership in Changing Environments (3) US MIS  
Challenges to study, practice, & evaluate adaptive leadership skills as demands of ROTC Leader Development Assessment Course are presented. Develops self-awareness & critical thinking skills with challenging scenarios. Provides feedback on leader skills.

**MTG 4930** Advanced Directed Study and Research (1-3) US MIS  
PR: CI and permission of Professor of Military Science. Intensive individual study in a particular aspect of military science that is not covered in regular course offerings. Request for enrollment must be made prior to registration in the form of a written proposal.

**MTG 3207** Geometry Connections (3) AS MTH  
PR: Calculus I. This course will provide prospective teachers with experiences in geometry that will help them develop the specialized content knowledge needed to support the teaching of mathematics in middle level education.

**MTG 3212** Geometry 6A (3) AS MTH  
PR: MAC 2311. No credit towards Mathematics major. Emphasis on axiomatics, advanced Euclidean geometry, elements of projective geometry, non-Euclidean geometry.

**MTG 4214** Modern Geometry 6A (3) AS MTH  
CP MAS 4301 or CI. Topics will be selected from modern plane geometry. Mobius geometry, elliptic and hyperbolic geometry.

**MTG 4302** Introduction to Topology 6A (3) AS MTH  

**MTG 5256** Differential Geometry (3) AS MTH  
PR: MAA 4211, MAS 3105. Exterior calculus, differentiable manifolds, integration of differential forms, surfaces in 3-space, covariant derivative, curvature, matrix groups.

**MTG 5316** Topology I (3) AS MTH  

**MTG 5317** Topology II (3) AS MTH  
PR: MTG 5316. The fundamental group; elements of homotopy theory and homology theory.

**MUC 1211** Freshman Composition and Instrumentation 1 (2) FA MUS  
PR: Permission of instructor. Introduction to Composition is a skill-building course designed for freshman music composition majors. Students will study techniques to ideate, compose, orchestrate, notate and obtain documented performances of their music. (Majors only--not repeatable).

**MUC 1212** Freshman Composition and Instrumentation 2 (2) FA MUS  
PR: MUC 1211. Introduction to Composition is a skill-building course designed for freshman music composition majors. Students will study techniques to ideate, compose, orchestrate, notate and obtain documented performances of their music. (Majors only--not repeatable).

**MUC 2221** Sophomore Composition and Instrumentation 1 (2) FA MUS  
PR: MUC 1212. Students will complete two large-scale chamber works (continuing to learn to
MUC 2222 Sophomore Composition and Instrumentation 2 (2) FA MUS  
PR: MUC 1212. Sophomore Composition is a two-course sequence which requires each student to complete two pieces per semester, two business-oriented projects, lead a discussion based on the writing of a selected composer, and explore major pieces from the literature.

MUC 2301 Introduction To Electronic Music FA CAFA (3) FA MUS  
History and repertory of electronic music; standard sound studio techniques; basic electronics as applied in electronic sound synthesis; mathematics for music, composition and electronic music.

MUC 3231 Junior Composition and Instrumentation 1 (2) FA MUS  
PR: MUC 2222. A skill-building course designed for junior music composition majors. Students will compose music, notate and orchestrate it and obtain a performance of 2 large-scale pieces, one for large wind ensemble.

MUC 3232 Junior Composition and Instrumentation 2 (2) FA MUS  
PR: MUC 3231. A skill-building course designed for junior music composition majors. Students will compose music, notate and orchestrate it and obtain a performance of it. Students will begin writing for large ensembles, e.g. wind ensemble and choir.

MUC 3401 Electronic Music-Analog Synthesis I (3) FA MUS  
PR: MUC 2301 and DPR. Composition for tape medium with analog synthesizers; use of sound recording studio; repertory or analog music synthesis; technical basis of analog systems design and construction.

MUC 3402 Electronic Music-Analog Synthesis II (3) FA MUS  
PR: MUC 2301 and DPR. Composition for tape medium with analog synthesizers; use of sound recording studio; repertory or analog music synthesis; technical basis of analog systems design and construction.

MUC 3441 Electronic Music-Digital Synthesis I (3) FA MUS  
PR: MUC 3401 or MUC 3402 and DPR. Computer assisted composition for conventional instruments; composition for tape medium with computer controlled analog synthesizers; direct digital synthesis; digital systems design and construction.

MUC 3442 Electronic Music-Digital Synthesis II (3) FA MUS  
PR: MUC 3401 or MUC 3402 and DPR. Computer assisted composition for conventional instruments; composition for tape medium with computer controlled analog synthesizers; direct digital synthesis; digital systems design and construction.

MUC 4403 Electronic Music-Real-Time Performance I (3) FA MUS  
PR: MUC 3402 and MUC 3442 or equivalent. DPR. Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

MUC 4404 Electronic Music-Real-Time Performance II (3) FA MUS  
PR: MUC 3402 and MUC 3442 or equivalent. DPR. Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

MUC 4620 Jazz Composition (3) FA MUS  
PR: MUT 3354 and/or DPR. Private instruction in original jazz composition. Required of All Jazz Studies Comp. majors. Minimum six of hours.

MUC 4950 Senior Recital/Portfolio Presentation (2) FA MUS  
PR: MUC 4241. This is course is a "capstone"-type of experience requiring 8th-semester senior to produce and promote 2 concerts: one of his or her own music (on campus), and one with other seniors to be held off campus. A portfolio/database presentation is also required.

MUC 5625 Jazz Composition (2) FA MUS  
PR: CI. Required of all composition majors. Private instruction in original composition.

MUE 2090 Foundations of Music Education (3) FA MUS  
PR: DPR. The course is designed to investigate music education practices in the schools. Through the experience and information offered in this course a student will be able to determine his/her commitment to professional music education.

MUE 3414 Creative Performance Chamber Ensemble (1) FA MUS  
PR: MUE 2090. CR: MUE 3424 or MUE 3425. This course will provide students opportunities to apply concepts of informal learning, gained through various course work, in a non-traditional, student directed, music education performance setting. The course is repeatable for a total of four credits.

MUE 3421 Choral Techniques (1) FA MUS  
A study of choral materials in a laboratory setting appropriate to elementary and secondary school music programs. Course content will change each semester.

MUE 3422 Wind Techniques (1) FA MUS  
PR: MUG 3104. A two-semester sequence intended to equip music education students with basic performance, pedagogical, and rehearsal techniques, applicable to brass and woodwind...
MUE 3423 String Techniques (1) FA MUS
PR: DPR. A study of orchestra materials, in a laboratory setting, appropriate to elementary and secondary school music programs. Course content will change each semester.

MUE 3424 Progressive Music Education Methods I (3) FA MUS
PR: MUE 2090. CR: Creative Performance Chamber Ensemble. This course will provide students a grounding in methods for music education settings outside the traditional general, band, choir and string programs.

MUE 3425 Progressive Music Education Methods II (3) FA MUS
PR: MUE 3424. CR: MUE 3414. This course will provide students a further grounding in methods for music education settings outside the traditional general, band, choir and string programs.

MUE 3475 Percussion Techniques (1) FA MUS
Introduction to percussion pedagogy for the music educator.

MUE 3930 Music Education Forum (1) FA MUS
PR: Status as a music education major; permission of the Music Advisor. Discuss MusEd professional organizations (MENC, CMENC, ISME, etc.). Students join CMENC and attend the FMEA conference. Add'l topics: classroom management, school safety, professional ethics, education law, and MusEd for special students. Required for MusEd majors 4 semesters @ 1 credit hour per term.

MUE 4311 General Music Methods (3) FA MUS
PR: MUE 2090 This course will consist of theoretical and practical training in teaching General Music Education K-12. It will include the study of philosophies, strategies and methodologies in contemporary General Music Education used in the USA and internationally.

MUE 4331 Choral Methods (3) FA MUS

MUE 4332 Instrumental Methods (3) FA MUS

MUE 4480 Special Ensemble Methods (2) FA MUS
This course is restricted to majors and is repeatable for up to 6 credits.

MUE 4936 Senior Seminar In Music WRIN (3) FA MUS

MUE 4940 Internship: Music Education CPST (6-10) FA MUS
CR: MUE 4936. One full semester of internship in public or private elementary and secondary schools. Restricted to majors.

MUG 3104 Basic Conducting (2) FA MUS
PR: DPR. The study and practical application of basic conducting techniques. Development of skills related to the conducting of musical scores.

MUG 3108 Advanced Conducting (2) FA MUS
PR: MUG 3104. Provides USF music education majors with a competency-based lab experience in conducting while placing an emphasis on developing advanced skills necessary to lead an ensemble in rehearsal and performance. Restricted to Music Education Majors.

MUG 4302 Instrumental Conducting (2) FA MUS
PR: MUG 3404 and DPR. A study of those techniques of conducting unique to instrumental music ensembles: baton technique, score reading, terminology, rehearsal management.

MUH 2020 The History of Blues and Rock FA CAFA HHCP (3) FA MUS
A study of the history of rock music: its roots, regions and countries of origin, evolution, styles, influences, social/cultural context, etc. Blues and rock are particularly American forms of music, but they reflect ancient practice as well.

MUH 2051 Folk And Traditional Music Of World Cultures FA AP CAFA (3) FA MUS
A comparative survey of the stylistic traits and functions of folk and traditional music, both sacred and secular, of diverse Western and non-Western cultures. For non-majors and music education majors; may be taken by applied music majors.

MUH 2632 Music In The United States FA (3) FA MUS
Designed for majors and non-majors, this course will use live performances, videotapes, and recordings to illustrate music as practiced in America from Colonial to present times. Included in the course will be study of the contributions of various ethnic/minority groups, and discussions of the relevant social issues connected with these contributions.

MUH 3016 Survey Of Jazz FA CAFA (3) FA MUS
For non-music majors. Not repeatable. This course introduces undergraduate students to Jazz music. Students will study historical, cultural and social issues associated with the evolution of jazz music and learn to hear and discern specific musical traits found in jazz music.

MUH 3300 Music History/Medieval And Renaissance (2) FA MUS
PR: DPR. Required of music majors; a study of the historical development of musical styles of the Medieval and Renaissance periods and of the music of those periods.

MUH 3301 Music History/Baroque And Classic MW (3) FA MUS
PR: MUL 2111, DPR. Required of music majors; open to non-majors with DPR. A study of the historical development of musical styles of the Baroque and Classic periods and of the music of those periods.
MUH 3302 Music History/Romantic And 20th Century MW (3) FA MUS
PR: MUL 2111, DPR. Required of music majors; open to non-majors with DPR. A study of the historical development of musical styles of the Romantic and Twentieth Century eras and of the music of those periods.

MUH 4058 Intercultural Music In The Twentieth Century MW (3) FA MUS
PR: MUH 2051 or MUL 2111, DPR. An in-depth investigation of composers born after c. 1880, from all parts of the world, who have attempted to integrate elements from two or more cultures into their compositions.

MUH 4372 Representing the United States in Music 6A WRIN (3) FA MUS
This course explores works by twentieth-century composers that define aspects of American life. We will examine a diverse selection of pieces and genres ranging from traditional European art music forms to jazz, rock, and hip hop.

MUH 4801 History Of Jazz (3) FA MUS
PR: MUT 1112, DPR. An in-depth study of the historical development of Jazz, including the representative musical literature and sociological implications.

MUL 2111 Introduction To Music Literature 6A HP FA (3) FA MUS
PR: MUT 1112, DPR. A survey of representative music exemplars of the past and present with emphasis on the study of styles and form. Required for music majors.

MUL 3001 Issues In Music FA AP (2-3) FA MUS
Open only to non-music majors. Lectures and live performances by artist faculty of significant works from the literature for the piano; analysis and illustration in performance of the abstract and aesthetic elements in music which vitally concern the artist-performer.

MUL 3011 Music in Your Life FA CAFA (3) FA MUS
Open only to non-music majors. A study in the art of music and its materials, designed to develop an understanding of basic principles of music and a technique for listening to music.

MUL 3600 Vocal Literature - Undergraduate (2) FA MUS
PR: Four terms of studio grade. Open to all USF undergraduate vocal performance majors that have completed four terms of vocal study with a passing grade. Other students may petition to enroll with the approval of the instructor. Provides a survey of standard vocal literature.

MUN 1100 University Pep Band and Winter Guard (1-3) FA MUS
Auditions for Pep Band are required for students who did not march in the Fall. Auditions for Winter Guard are required for all members.

MUN 1110 University Marching Band (1-3) FA MUS
This course provides performance experiences with the Marching Band. The course is open to any major area.

MUN 1120 Concert Band (1) FA MUS
The concert band provides music majors and non-major enthusiasts the opportunity to rehearse and perform quality wind band literature under the direction of multiple conductors. The course can be taken multiple years for one credit each time.

MUN 1439 Tuba-Euphonium Ensemble (1) FA MUS
Course is a vital/required performance outlet for all USF tuba/euphonium majors. Repertoire & class size provide for personalized instruction/dynamic musical growth. Non-majors may enroll. Course is repeatable for credit- total 8 credits.

MUN 3133 Symphonic Band (1) FA MUS
The Symphonic Band fosters the highest performance standards of wind and percussion music and male-chorus music in combination with, (singing); study and performance of male-chorus, treble-voice, and concert band music in combination with, (singing); study and performance of treble-voice music and male-chorus music in combination with, (singing); study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

MUN 3213 University Orchestra (1) FA MUS
PR: DPR. Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

MUN 3313 University Singers (1) FA MUS
PR: DPR. Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

MUN 3323 Bel Canto Women's Choir (1) FA MUS
PR: CI. Open to all university students with the necessary proficiency in their performing media (singing); study and performance of treble-voice music and treble-voice music in combination with, string, woodwind, brass, or percussion instruments.

MUN 3333 Singing Stampede (1) FA MUS
PR: CI. Open to all university students with the necessary proficiency in their performing media (singing); study and performance of male-chorus music and male-chorus music in combination with, string, woodwind, brass, or percussion instruments.

MUN 3343 Chamber Singers (1) FA MUS
PR: DPR. Open to all university students with the necessary proficiency in their performing media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

MUN 3383 University-Community Chorus (1) FA MUS
PR: DPR. Open to all university students with the necessary proficiency in their performing media;
study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

**MUN 3411 String Quartet (1) FA MUS**

Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

**MUN 3420 Saxophone Ensemble (1) FA MUS**

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

**MUN 3421 Flute Choir (1) FA MUS**

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

**MUN 3424 Woodwind Quintet (1) FA MUS**

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

**MUN 3427 Flute Choir (1) FA MUS**

PR: Audition and acceptance into the School of Music as a Major. Flute Choir will rehearse and perform new and standard repertoire for flute ensemble. Students will learn to perform on all members of the flute family including piccolo, C flute, alto and bass flute.

**MUN 3431 Brass Quintet (1) FA MUS**

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

**MUN 3433 Brass Choir (1) FA MUS**

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

**MUN 3443 Percussion Ensemble (1) FA MUS**

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

**MUN 3444 Marimba Ensemble (1) FA MUS**

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

**MUN 3453 Piano Ensemble (1) FA MUS**

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments.

**MUN 3474 Collegium Musicum (1) FA MUS**

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.

**MUN 3713 Jazz Ensemble (1) FA MUS**

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments.

**MUN 3714 Jazz Chamber Ensemble (1) FA MUS**

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments.

**MUO 3503 Opera Workshop (1) FA MUS**

PR: DPR. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments.

**MUS 2010 Recital Attendance (0) FA MUS**

S/U only. This course is required whenever a student registers for applied music. The requirement for the successful completion of the course is attendance at ten (10) department-approved recitals/concerts throughout the semester.

**MUS 2201 Language Diction For Singers (1) FA MUS**

PR: DPR. Required of voice performance majors. Specialized study in Language Diction for Singers. Specific language varies, to be arranged at each course offering.

**MUS 4905 Directed Study (1-4) FA MUS**

PR: DPR. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration.

**MUS 4930 Selected Topics In Music (1-4) FA MUS**

PR: DPR. The content of the course will be governed by student demand and instructor interest.

**MUS 4931 Selected Studio Topics In Music (1-4) FA MUS**

PR: DPR. The content of the course will be governed by student demand and instructor interest.

**MUS 4935 Music Senior Seminar (1) FA MUS**

PR: DPR. S/U only. To aid majors to understand, appraise and perfect their own art through critical and aesthetic judgments of their colleagues.

**MUS 5905 Directed Study (1-4) FA MUS**

PR: DPR. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration.
COURSE DESCRIPTIONS

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MUT 1001 Rudiments Of Music (2) FA MUS
Open to non-music majors; development of skills in hearing and performing music and in basic notation. Will not count as degree credit for music majors.

MUT 1111 Music Theory I (3) FA MUS
PR: DPR. Required of music majors; development of skills in perceiving and writing music through the use of aural and visual analysis and examples from all historical periods of music literature.

MUT 1112 Music Theory II (3) FA MUS
PR: MUT 1111, DPR. Required of music majors; development of skills in perceiving and writing music through the use of aural and visual analysis and examples from all historical periods of music literature.

MUT 1241 Aural Theory I (1) FA MUS
PR: DPR. To be taken concurrently with MUT 1111, MUT 1112. Course designed to begin training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing.

MUT 1242 Aural Theory II (1) FA MUS
PR: MUT 1241, DPR. Course designed to begin training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing.

MUT 2116 Music Theory III (3) FA MUS
PR: MUT 2111, DPR. Required of music majors, continuation of MUT 1111 and 1112.

MUT 2117 Music Theory IV (3) FA MUS
PR: MUT 2116, DPR. Required of music majors, continuation of MUT 1111, 1112, and 2116.

MUT 2246 Aural Theory III (1) FA MUS
PR: MUT 1242. To be taken concurrently with MUT 2116, MUT 2117, DPR. Course designed to continue training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing.

MUT 2247 Aural Theory IV (1) FA MUS
PR: MUT 2246. To be taken concurrently with MUT 2116, MUT 2117, DPR. Course designed to continue training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing.

MUT 2641 Jazz Theory And Improvisation I (2) FA MUS
PR: MUT 1112 and/or DPR. A study of jazz improvisational techniques and related jazz theory.

MUT 2642 Jazz Theory And Improvisation II (2) FA MUS
PR: MUT 2641 or DPR. A study of jazz improvisational techniques and related jazz theory.

MUT 3353 Jazz Composition and Arranging I (3) FA MUS
PR: MUT 1112 and DPR. Course designed to develop arranging and/or compositional skills in the jazz idiom through the study of jazz orchestration, harmonic, and melodic practices.

MUT 3354 Jazz Composition And Arranging II (3) FA MUS
PR: MUT 3353 and DPR. Course designed to develop arranging and/or compositional skills in the jazz idiom through the study of jazz orchestration, harmonic and melodic practices.

MUT 3663 Advanced Jazz Improvisation I (2) FA MUS
PR: MUT 2642 or DPR. A studio course study of the improvised solos of the major innovators in jazz. Oriented toward the continuing development of students' soloing ability. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.

MUT 3664 Advanced Jazz Improvisation II (2) FA MUS
PR: MUT 3663, DPR. A continuation of Jazz Styles and Analysis I with the emphasis on contemporary jazz artists. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.

MUT 4310 Orchestration I (2) FA MUS
PR: DPR. Intensive study and practice in scoring music for various combinations of instruments, including symphony orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.

MUT 4311 Orchestration II (2) FA MUS
PR: MUT 4310, DPR. Intensive study and practice in scoring music for various combinations of instruments, including symphony orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.

MUT 4421 Eighteenth Century Practice (3) FA MUS
PR: MUT 2117, DPR. An intensive study of the contrapuntal practice of the 18th century; development of skills in perceiving and writing music in the style of the period through the use of aural and visual analysis.

MUT 4571 Twentieth Century Practice (3) FA MUS
PR: MUT 2117, DPR. A study of 20th century theoretical concepts; development of skills in perceiving and writing music in contemporary styles through the use of aural and visual analysis.

MVB 1211 Applied Trumpet (1) FA MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVB 1212 Applied French Horn (1) FA MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVB 1213 Applied Trombone (1) FA MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for
MVB 1214 Applied Euphonium (1) FA MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVB 1215 Applied Tuba (1) FA MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVB 1311 Trumpet Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1312 French Horn Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1313 Trombone Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1314 Euphonium Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1315 Tuba Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1411 Trumpet Major (3) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1412 French Horn Major (3) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1413 Trombone Major (3) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1414 Euphonium Major (3) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1415 Tuba Major (3) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.
Required of all applied music majors. Private and class instruction.

MVB 2424 Euphonium Major (3) FA MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVB 2425 Tuba Major (3) FA MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVB 3331 Trumpet Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3332 French Horn Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3333 Trombone Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3334 Euphonium Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3335 Tuba Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 3431 Trumpet Major (3) FA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVB 3432 French Horn Major (3) FA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVB 3433 Trombone Major (3) FA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVB 3434 Euphonium Major (3) FA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVB 3441 Trumpet Major (3) FA MUS
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVB 3442 French Horn Major (3) FA MUS
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVB 3443 Trombone Major (3) FA MUS
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVB 3444 Euphonium Major (3) FA MUS
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.
MVB 5251 Applied Trumpet (2-4) FA MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVB 5252 Applied French Horn (2-4) FA MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVB 5253 Applied Trombone (2-4) FA MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVB 5254 Applied Euphonium (2-4) FA MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVB 5255 Applied Tuba (2-4) FA MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVJ 1310 Applied Jazz Piano Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 1313 Jazz Guitar Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 1314 Jazz Bass Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 1319 Applied Jazz Percussion Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 1310 Applied Jazz Piano Major (3) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 1410 Applied Jazz Piano Major (3) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 1413 Jazz Guitar Major (3) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 1414 Jazz Bass Major (3) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 1419 Jazz Percussion Major (3) FA MUS
PR: Must be Jazz Studies Major. Applied instruction for Jazz Percussion Majors, Freshman level Restricted to Majors Repeatable,(9 credits total) Applied Jazz Lessons are specialized performance studies designed to improve student instrumental, stylistic and improvisational skills.

MVJ 2110 Jazz Keyboard Skills (2) FA MUS
PR: MUT 2641. For jazz studies majors (non pianists), Students will learn jazz chord voicings, comping rhythms, and develop appropriate piano technique to be able perform simple melodies and bass lines.

MVJ 2320 Applied Jazz Piano Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 2110 Jazz Keyboard Skills (2) FA MUS
PR: MUT 2641. For jazz studies majors (non pianists), Students will learn jazz chord voicings, comping rhythms, and develop appropriate piano technique to be able perform simple melodies and bass lines.

MVJ 2320 Applied Jazz Piano Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 2110 Jazz Keyboard Skills (2) FA MUS
PR: MUT 2641. For jazz studies majors (non pianists), Students will learn jazz chord voicings, comping rhythms, and develop appropriate piano technique to be able perform simple melodies and bass lines.

MVJ 2320 Applied Jazz Piano Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVJ 2110 Jazz Keyboard Skills (2) FA MUS
PR: MUT 2641. For jazz studies majors (non pianists), Students will learn jazz chord voicings, comping rhythms, and develop appropriate piano technique to be able perform simple melodies and bass lines.

MVJ 2320 Applied Jazz Piano Principal (2) FA MUS
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MVJ 2110 Jazz Keyboard Skills (2) FA MUS
PR: MUT 2641. For jazz studies majors (non pianists), Students will learn jazz chord voicings, comping rhythms, and develop appropriate piano technique to be able perform simple melodies and bass lines.

MVJ 2320 Applied Jazz Piano Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.
non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVJ 2323 Jazz Guitar Principal (2) FA MUS**
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVJ 2324 Jazz Bass Principal (2) FA MUS**
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVJ 2329 Applied Jazz Percussion Principal (2) FA MUS**
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVJ 2420 Applied Jazz Piano Major (3) FA MUS**
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVJ 3430 Applied Jazz Piano Major (3) FA MUS**
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVJ 3433 Jazz Guitar Major (3) FA MUS**
PR: DPR. Necessary competency at Senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVJ 4340 Jazz Piano Principal (2) FA MUS**
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVJ 4343 Jazz Guitar Principal (2) FA MUS**
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVJ 4440 Jazz Piano Major (3) FA MUS**
PR: DPR. Necessary competency at Senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVJ 4443 Jazz Guitar Major (3) FA MUS**
PR: DPR. Necessary competency at Senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Type</th>
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</tr>
</thead>
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<tr>
<td>MVJ 2425 Jazz Percussion Major (3) FA MUS</td>
<td>Jazz Percussion Major</td>
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<td>MVJ 3330 Applied Jazz Piano Principal (2) FA MUS</td>
<td>Applied Jazz Piano Principal</td>
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<td>FA</td>
<td>MUS</td>
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<tr>
<td>MVJ 3333 Jazz Guitar Principal (2) FA MUS</td>
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<tr>
<td>MVJ 3334 Jazz Bass Principal (2) FA MUS</td>
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<td>MUS</td>
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<tr>
<td>MVJ 3339 Applied Jazz Percussion Principal (2) FA MUS</td>
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<td>MVJ 3439 Applied Jazz Percussion (3) FA MUS</td>
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<td>MVJ 3440 Jazz Piano Principal (3) FA MUS</td>
<td>Jazz Piano Principal</td>
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<td>MUS</td>
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<tr>
<td>MVJ 3443 Jazz Guitar Principal (3) FA MUS</td>
<td>Jazz Guitar Principal</td>
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</table>
COURSE DESCRIPTIONS

MVJ 4444 Jazz Bass Major (3) FA MUS
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 4449 Jazz Percussion Major (3) FA MUS
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 4950 Applied Jazz Performance (3) FA MUS
PR: MUT 2642 and DPR. Necessary competency at junior level determined by faculty jury examination. Private and class instruction.

MVJ 5250 Applied Jazz Piano Secondary (2) FA MUS
PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble. Private and class instruction.

MVJ 5252 Applied Jazz Bass Secondary (2) FA MUS
PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble. Private and class instruction.

MVJ 5253 Applied Jazz Guitar Secondary (2) FA MUS
PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble. Private and class instruction.

MVJ 5254 Applied Jazz Bass Secondary (2) FA MUS
PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble. Private and class instruction.

MVJ 5259 Applied Jazz Percussion Secondary (2) FA MUS
PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble. Private and class instruction.

MVJ 5951 Applied Jazz Performance (2) FA MUS
PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble. Private and class instruction.

MVK 1111 Keyboard Skills I (2) FA MUS
PR: DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

MVK 1211 Applied Piano (1) FA MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVK 1311 Piano Principal (2) FA MUS
PR: DPR. Necessary competency determined by faculty jury audition. Required of all applied music majors. Private and class instruction.

MVK 1411 Piano Major (3) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVK 1811 Beginning Piano I (2) FA MUS
Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

MVK 2111 Keyboard Skills III (2) FA MUS
PR: MVK 1121 or DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

MVK 2121 Keyboard Skills IV (2) FA MUS
PR: MVK 2111 or DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

MVK 2321 Piano Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVK 2421 Piano Major (3) FA MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVK 3111 Music Majors, Level V (2) FA MUS
PR: DPR. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Primary emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.
### MVK 3331 Piano Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### MVK 3431 Piano Major (3) FA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### MVK 4341 Piano Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### MVK 4441 Piano Major (3) FA MUS
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### MVK 4640 Piano Pedagogy I (3) FA MUS
PR: DPR. May be elected by undergraduate music majors; emphasis on the business management of the music studio, and the musical responsibilities of the studio teacher, the techniques of private instruction.

### MVK 4641 Piano Pedagogy II (3) FA MUS
PR: MVK 4640, DPR. May be elected by undergraduate music majors; emphasis on the business management of the music studio, and the musical responsibilities of the studio teacher, the techniques of private instruction.

### MVK 5251 Applied Piano (2-4) FA MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

### MVP 1211 Applied Percussion (1) FA MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

### MVP 1311 Percussion Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### MVP 1411 Percussion Major (3) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### MVP 2321 Percussion Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### MVP 2421 Percussion Major (3) FA MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### MVP 3331 Percussion Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### MVP 3431 Percussion Major (3) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

### MVP 4441 Percussion Major (3) FA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

### MVP 5251 Applied Percussion, Secondary (2-4) FA MUS
PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble. Required of all applied music majors. Private and class instruction.

### MVS 1211 Applied Violin (1) FA MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

### MVS 1212 Applied Viola (1) FA MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

### MVS 1213 Applied Violoncello (1) FA MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite</th>
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<td>MVS 1214</td>
<td>Applied Double Bass</td>
<td>1</td>
<td>DPR</td>
<td>Open to limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.</td>
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<td>MVS 1311</td>
<td>Violin Principal</td>
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<td>DPR</td>
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<td>MVS 1312</td>
<td>Viola Principal</td>
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<td>DPR</td>
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<td>MVS 1313</td>
<td>Violoncello Principal</td>
<td>2</td>
<td>DPR</td>
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<td>MVS 1314</td>
<td>Double Bass Principal</td>
<td>2</td>
<td>DPR</td>
<td>Open to limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.</td>
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<td>MVS 1411</td>
<td>Violin Major</td>
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<td>DPR</td>
<td>Open to limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.</td>
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<td>MVS 1412</td>
<td>Viola Major</td>
<td>3</td>
<td>DPR</td>
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<td>MVS 1413</td>
<td>Cello Major</td>
<td>3</td>
<td>DPR</td>
<td>Open to limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.</td>
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<td>MVS 1414</td>
<td>Double Bass Major</td>
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<td>DPR</td>
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<td>MVS 2321</td>
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<td>DPR</td>
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<td>MVS 2322</td>
<td>Viola Principal</td>
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<td>DPR</td>
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<td>MVS 2323</td>
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<td>DPR</td>
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<td>MVS 2421</td>
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<td>Viola Major</td>
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<tr>
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<td>Cello Major</td>
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<td>MVS 2424</td>
<td>Double Bass Major</td>
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<td>MVS 3331</td>
<td>Violin Principal</td>
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<td>DPR</td>
<td>Open to limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.</td>
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<td>MVS 3332</td>
<td>Viola Principal</td>
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<tr>
<td>MVS 3333</td>
<td>Violoncello Principal</td>
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<td>DPR</td>
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<td>MVS 3334</td>
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</tbody>
</table>
and class instruction.

MVS 3431 Violin Major (3) FA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVS 3432 Viola Major (3) FA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVS 3433 Cello Major (3) FA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVS 3434 Double Bass Major (3) FA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVS 4341 Violin Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVS 4342 Viola Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVS 4343 Violoncello Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVS 4344 Double Bass Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVS 4441 Violin Major (3) FA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVS 4442 Viola Major (3) FA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVS 4443 Cello Major (3) FA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVS 4444 Double Bass Major (3) FA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVS 5251 Applied Violin (2-4) FA MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVS 5252 Applied Viola (2-4) FA MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVS 5253 Applied Cello (2-4) FA MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVS 5254 Applied Double Bass (2-4) FA MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVV 1211 Applied Voice (1) FA MUS
One-half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVV 1311 Voice Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVV 1411 Voice Major (3) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVV 2321 Voice Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVV 2421 Voice Major (3) FA MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and
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MVV 3331 Voice Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVV 3431 Voice Major (3) FA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVV 3630 Vocal Pedagogy - Undergraduate (2) FA MUS
PR: Four terms of studio voice. Open to USF undergraduate vocal performance majors that have completed four terms of vocal study (passing grade). Other students may petition to enroll with the approval of the instructor. Covers the fundamental principles of the teaching of singing.

MVV 4341 Voice Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVV 4441 Voice Major (3) FA MUS
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVW 1215 Applied Saxophone (1) FA MUS
PR: DPR. Course is open by audition only. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVW 1211 Flute Principal (2) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 1212 Oboe Principal (2) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 1213 Clarinet Principal (2) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 1311 Flute Principal (2) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 1312 Oboe Principal (2) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 1313 Clarinet Principal (2) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 1314 Bassoon Principal (2) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 1315 Saxophone Principal (2) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVV 1411 Flute Major (3) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVV 1412 Oboe Major (3) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVV 1413 Clarinet Major (3) FA MUS
PR: DPR. Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.
<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
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<tr>
<td>MVW 1414</td>
<td>Bassoon Major (3) FA MUS</td>
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<td>Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.</td>
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<td>MVW 1415</td>
<td>Saxophone Major (3) FA MUS</td>
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<td>Required of all applied music majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.</td>
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<td>MVW 2321</td>
<td>Flute Principal (2) FA MUS</td>
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<td>DPR</td>
<td>Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.</td>
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<tr>
<td>MVW 2322</td>
<td>Oboe Principal (2) FA MUS</td>
<td></td>
<td>DPR</td>
<td>Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.</td>
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<tr>
<td>MVW 2323</td>
<td>Clarinet Principal (2) FA MUS</td>
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<td>Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.</td>
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<tr>
<td>MVW 2324</td>
<td>Bassoon Principal (2) FA MUS</td>
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<td>Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.</td>
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<td>MVW 2325</td>
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<td>MVW 2421</td>
<td>Flute Major (3) FA MUS</td>
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<td>DPR</td>
<td>Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.</td>
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<td>MVW 2431</td>
<td>Clarinet Major (3) FA MUS</td>
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<td>MVW 2432</td>
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<td>Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.</td>
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<td>MVW 2434</td>
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<td>Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.</td>
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<td>MVW 2435</td>
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<td>Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.</td>
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</tbody>
</table>
COURSE DESCRIPTIONS

MVW 4341 Flute Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 4342 Oboe Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 4343 Clarinet Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 4344 Bassoon Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 4345 Saxophone Principal (2) FA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of non-music majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVW 5251 Applied Flute (2-4) FA MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVW 5252 Applied Oboe (2-4) FA MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVW 5253 Applied Clarinet (2-4) FA MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVW 5254 Applied Bassoon (2-4) FA MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVW 5255 Applied Saxophone (2-4) FA MUS
PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

NSC 2121 Naval Ships Systems I (3) US NVY
Systems. Theory of design & operation of steam compartmentalization, electrical, & auxiliary systems. Theory of design & operation of steam

NSC 1101L Naval Science Laboratory (0) US NVY
A weekly two-hour laboratory covering professional and military subject matter. Attendance is mandatory for all midshipmen.

NSC 1110 Introduction to Naval Science (3) US NVY
Emphasis on the mission, organization, regulations and components of the U.S. Navy and Marine Corps.

NSC 1140 Sea Power and Maritime Affairs (3) US NVY
This course deals with the importance of seapower in historical events, including emphasis on worldwide political-military confrontations following the cold war.

NSC 2121 Naval Ships Systems I (3) US NVY
Types, structures & purpose of naval ships. Hydrodynamic forces, stability, compartmentalization, electrical, & auxiliary systems. Theory of design & operation of steam
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<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>NSC 2212C</td>
<td>Navigation/Naval Operations I: Navigation</td>
<td>3</td>
<td>US NVY</td>
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<tr>
<td>NSC 2221</td>
<td>Evolution of Warfare</td>
<td>3</td>
<td>US NVY</td>
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<tr>
<td>NSC 2231</td>
<td>Principles of Naval Management I</td>
<td>3</td>
<td>US NVY</td>
</tr>
<tr>
<td>NSC 2931</td>
<td>Directed Study in Naval ROTC</td>
<td>1-3</td>
<td>US NVY</td>
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<td>NSC 3123</td>
<td>Naval Ships Systems II</td>
<td>3</td>
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<tr>
<td>NSC 3214C</td>
<td>Navigation/Naval Operations II: Seamanship and Ship Operations</td>
<td>3</td>
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<td>NSC 4224</td>
<td>Amphibious Warfare</td>
<td>3</td>
<td>US NVY</td>
</tr>
<tr>
<td>NSC 4232</td>
<td>Principles of Naval Management II: Leadership and Ethics</td>
<td>3</td>
<td>US NVY</td>
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<tr>
<td>NSP 3640</td>
<td>Introduction to Military and Veteran Healthcare</td>
<td>3</td>
<td>NR NUR</td>
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<tr>
<td>NSP 3880</td>
<td>Foundations of Healthcare QI &amp; Patient Safety</td>
<td>3</td>
<td>NR NUR</td>
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<tr>
<td>NSP 4095</td>
<td>Registered Nurse First Assistant Course</td>
<td>3</td>
<td>NR NUR</td>
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<tr>
<td>NSP 4148</td>
<td>Simulation for Nursing Practice</td>
<td>3</td>
<td>NR NUR</td>
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<tr>
<td>NSP 4485</td>
<td>An Interdisciplinary Perspective in HIV Disease</td>
<td>3</td>
<td>NR NUR</td>
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<tr>
<td>NSP 4545</td>
<td>Substance Abuse Across the Lifespan</td>
<td>3</td>
<td>NR NUR</td>
</tr>
<tr>
<td>NSP 4855</td>
<td>Skills for Nursing Staff Development Educator</td>
<td>3</td>
<td>NR NUR</td>
</tr>
<tr>
<td>NSP 4881</td>
<td>Healthcare Human Resources Systems and Strategies</td>
<td>3</td>
<td>NR NUR</td>
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<tr>
<td>NUR 3026</td>
<td>Fundamentals of Nursing Practice</td>
<td>4</td>
<td>NR NUR</td>
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</table>

*NSC 2212C Navigation/Naval Operations I: Navigation (3) US NVY*

Piloting and celestial navigation theory, principles, and procedures. Tides, currents, weather, use of navigation instruments and equipment, and practicum. Laboratory required.

*NSC 2221 Evolution of Warfare (3) US NVY*

A survey of military history emphasizing principles of warfare, strategy and tactics, and significant military leaders and organizations.

*NSC 2231 Principles of Naval Management I (3) US NVY*

Theory and principles of management, focusing on the officer-manager as an organizational decision maker. Includes interpersonal skills, behavior factors, and group dynamics.

*NSC 2931 Directed Study in Naval ROTC (1-3) US NVY*

PR: Permission of Professor of Naval Science. Intensive individualized study in particular aspects of Naval Science that are not covered in regular course offerings. Enrollment is recommended for NROTC students who are anticipating attending the Naval Science Institute in Newport, RI, during sophomore/junior summer. Course content and title may vary from term to term.

*NSC 3123 Naval Ships Systems II (3) US NVY*

PR: NSC 2121. Capabilities and limitations of fire control systems and weapons, radar and underwater sound for target acquisition, threat analysis, tracking, weapons selection, delivery, and guidance. Various aspects of explosives, fusing and Naval ordnance.

*NSC 3214C Navigation/Naval Operations II: Seamanship and Ship Operations (3) US NVY*

PR: NSC 2212C. International and inland rules of the road; relative motion-vector analysis; ship handling, employment, and tactics, afloat communications; and operations analysis. Laboratory required.

*NSC 4224 Amphibious Warfare (3) US NVY*

History of amphibious warfare emphasizing doctrine and techniques as well as an understanding of the interrelations of political, strategic, operational, tactical, and technical levels of war from the past.

*NSC 4232 Principles of Naval Management II (Leadership and Ethics) (3) US NVY*

PR: NSC 2231. Integration of professional competencies and qualities of effective leadership with emphasis on moral and ethical responsibilities, accountability, communications and military law for the junior officer.

*NSP 3147 Web-Based Education for Staff Development (3) NR NUR*

This course provides the learner with the knowledge and skills to facilitate the development of web-based educational materials for nursing and healthcare staff.

*NSP 3640 Introduction to Military and Veteran Healthcare (3) NR NUR*

This course will provide an introduction to the military/veteran culture and the healthcare needs and concerns related to this unique population.

*NSP 3880 Foundations of Healthcare QI & Patient Safety (3) NR NUR*

PR: NUR 3078, NUR 3805, NUR 4895C. Provides foundational principles, concepts and methods for promoting and improving healthcare quality and patient safety at the micro-, meso-, and macro-system levels with a focus on application at the micro-system level.

*NSP 4095 Registered Nurse First Assistant Course (3) NR NUR*

PR: CI. This course will provide a foundation of knowledge and technical skills necessary for the experienced preoperative registered nurse to function in the role of registered nurse first assistant (RNFA).

*NSP 4148 Simulation for Nursing Practice (3) NR NUR*

This course is designed to explore the knowledge, skills, and competencies needed to develop, implement and evaluate the integration of simulation into nursing curriculum. It examines the educational theories and simulation framework.

*NSP 4485 An Interdisciplinary Perspective in HIV Disease (6A MW LW) (3) NR NUR*

Provides an interdisciplinary perspective on HIV disease. Topics include the etiology, spectrum, and treatment of HIV disease; international perspectives; issues of race, gender, and ethnicity; values, ethics, and their influences on responses to HIV; and how the media has shaped the epidemic.

*NSP 4545 Substance Abuse Across the Lifespan (6A MW LW) (3) NR NUR*

Introduction to concepts of substance abuse and theories of addiction. The applicability of theories and concepts of substance use/abuse to clinical assessment, diagnosis and intervention with client populations across the lifespan is explored.

*NSP 4855 Skills for Nursing Staff Development Educator (3) NR NUR*

This course provides the learner with theoretical foundations and skill to function in a nursing professional development position. Principles of adult education, communication skills and educational technological advances will be explored.

*NSP 4881 Healthcare Human Resources Systems and Strategies (3) NR NUR*

This course will provide students with an understanding of systems and strategies necessary to effectively manage human resources in healthcare settings. Quality clinical care is dependent on effectively recruiting, retaining and developing staff.

*NUR 3026 Fundamentals of Nursing Practice and Foundations for Clinical Judgment (4) NR NUR*

PR: NUR 3145; CR: NUR 3026L and NUR 3066.
COURSE DESCRIPTIONS

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Fundamentals of Nursing Practice and Foundations for Clinical Judgment. Focus is on developing critical thinking and communication skills when applying concepts of health to meet the basic needs of the individual across the life span from within the context of the family.

NUR 3026L Nursing Fundamentals Clinical (4) NR NUR
CR: NUR 3026 and NUR 3066. Clinical experiences in the fundamentals of nursing practice and foundations for clinical judgment. Focus is on developing effective communication and critical thinking in applying nursing process, physical assessment, and concepts of health and illness.

NUR 3066 Physical Examination and Assessment (2) NR NUR
CR: NUR 3026, NUR 3026L. Focus is on the use of techniques and instruments necessary for the examination of infants, children and adults. Emphasizes assessment phase of critical thinking to enable student to perform evaluations of health status throughout the lifespan.

NUR 3066L Clinical Experience in Health Assessment - RN (1) NR NUR
PR: Admission to nursing major or CI. CR: NUR 3066. Clinical experience on history taking, physical assessment skills basic to biopsychosocial assessment and physical examination of adults and children. Emphasizes diagnostic reasoning and identification of alteration in functional health patterns.

NUR 3078 Information Technology Skills for Nurses (1) NR NUR
CR: NUR 3805. Introduction to information technology in order to enhance efforts and improve communication in the classroom and workplace environment. Focuses on developing technical skills and knowledge.

NUR 3125 Pathophysiology for Nursing Practice (4) NR NUR
PR: Admission to the nursing major or CI. Central concepts of pathophysiology: cells, tissues, organs and systems. Provides essential knowledge base in pathophysiology across the lifespan for professional nursing practice.

NUR 3145 Pharmacology in Nursing Practice (3) NR NUR
PR: Admission to the nursing major or CI; CP: NUR 3125. Focus on the basic and clinical concepts of pharmacology in nursing practice. Examines pharmacotherapeutics; pharmacodynamics; pharmacokinetics; adverse reactions and contraindications; therapeutic indications and nursing implications.

NUR 3215 Medical Surgical Nursing I (3) NR NUR
PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3125, NUR 3145; CR: NUR 3215 or NGR 5580L. Focuses on nursing assessment, prevention, and management of selected health care problems in adults of all ages. Critical thinking is used to analyze the effects of changes in health status and impact of nursing intervention for: patients with alteration in Fluid and Electrolyte Balance, Hematologic System, Integumentary and Immunologic System, Cardiovascular System, Pulmonary System, Musculoskeletal, Sensory System (Visual/Auditory). Patient teaching is incorporated for each topic.

NUR 3215L Medical Surgical Nursing Clinical I (4) NR NUR

NUR 3335 Psychiatric/Mental Health Nursing (3) NR NUR

NUR 3535L Psychiatric/Mental Health Nursing Clinical (3) NR NUR
PR: NUR 3026, NUR 3026L, NUR 3066, NUR 3125, NUR 3145. CR: NUR 3535. Focus on clinical intervention using critical thinking and communication skills with patients who require complex psychiatric rehabilitative care. Opportunities are offered to apply knowledge of psychopathology and psychopharmacologic therapies across the lifespan.

NUR 3678 Nursing Healthcare for Vulnerable Populations (3) NR NUR
The course focuses on the cultural aspects of providing health-related care through experiential analysis of a selected program designed to serve a vulnerable population either here or abroad.

NUR 3805 Education Transitions for Registered Nurses (2) NR NUR
PR: Admission to the nursing major. Transitions the Registered Nurse to the professional nursing role using self-reflection to document learning achieved through past personal and professional experiences to plan for career advancement.

NUR 3826 Ethical Legal Aspects in Nursing and Health Care MW (2) NR NUR
PR: CI. Nursing Majors. Introduction to contemporary bioethical and legal issues confronting health care providers in a variety of settings. Focuses on identification of legal and ethical principles underlying the decision-making process in nursing and health care.

NUR 3843 Problem Solving and Critical Thinking in Professional Nursing I (1) NR NUR
PR: Admission to Nursing major. The course is introduces the theoretical component of problem solving & critical thinking in professional nursing. The focus is developing critical thinking skills.
specific to problem solving in professional nursing.

NUR 3844 Problem Solving and Critical Thinking in Professional Nursing II (1) NR NUR
PR: NUR 3843. This course provides the opportunity for students to demonstrate achievement in problem solving and critical thinking in the nursing curriculum. The focus is applying critical thinking skills specific to problem solving in professional nursing.

NUR 3875 Telehealth in Healthcare (1) NR NUR
This online course prepares health care professionals on the use of telehealth in health care.

NUR 4069 Health Assessment for Registered Nurses (3) NR NUR
PR: NUR 4634C, NUR 3805. This course builds on the RN's previous knowledge and clinical expertise in developing health and physical assessment skills. The emphasis is on the analysis and synthesis of health assessment data as a basis for patient teaching.

NUR 4128 Pathophysiology/Pharmacology (3) NR NUR
PR: NUR 4634C. Updates pathophysiological and pharmacological concepts critical to clinical decision making in nursing. Focuses on commonly occurring disease processes.

NUR 4165 Nursing Inquiry 6A WRIN (3) NR NUR
PR: Admission to the nursing major or CI. An introductory course in statistics is recommended. An analysis of the research process. Emphasis on identification of researchable nursing problems and evaluations of research that is applicable to nursing practice. Focus on evidence-based practice for nursing.

NUR 4169C Evidence-Based Practice for Bacc Prepared Nurse 6A WRIN (3) NR NUR
PR: NUR 3078, NUR 3805, NUR 4895C. This course provides the foundations of clinical inquiry, research methodology and critical appraisal in the synthesis of research findings for application in evidence-based nursing practice.

NUR 4216 Medical Surgical Nursing II (4) NR NUR

NUR 4216L Medical Surgical Nursing Clinical II (5) NR NUR

NUR 4286 Geriatric Nursing: Population-based Perspectives on Nursing Care of Older Adults 6A LW WRIN (3) NR NUR
PR: NUR 3026, NUR 3066, NUR 3125, NUR 3145, NUR 3215. CP: NUR 4636, NUR 4636L. Focuses on the development of core competencies necessary to provide holistic, evidence-based and culturally sensitive nursing care to older adults.

NUR 4355 Child and Adolescent Health Nursing (3) NR NUR
PR: NUR 3215, NUR 3525 or NUR 3535, NUR 4216 and NUR 3215L, NUR 4216L and NUR 3525L or NUR 3535L or NGR 5580L. CR: NUR 4455, NUR 4635L or NGR 5680L; CP: NUR 4636. This course will explore the nursing care of children and adolescents within the context of the family. Focus on health promotion, risk factor identification, disease prevention, and health restoration in children and adolescents.

NUR 4455 Women’s Health Nursing (2) NR NUR
PR: NUR 3215, NUR 3525 or NUR 3535, NUR 4216 and NUR 3215L, NUR 4216L and NUR 3525L or NUR 3535L or NGR 5580L. CR: NUR 4455; CP: NUR 4635L or NGR 5680L, NUR 4636. Focuses on the physiologic and psychosocial needs of women, newborns and families related to fertility and infertility, pregnancy and birth.

NUR 4467L Maternal and Pediatric Nursing Care Clinical (4) NR NUR
PR: NUR 4216, NUR 4216L; CR: NUR 4455, NUR 4455. Provides clinical experiences in diverse settings. Focuses on nursing care designed to prevent and reduce risk of disease and injury, promote health, and treat illness and injury in childbearing women, infants, children, adolescents and families.

NUR 4634C Population Health CPST (3) NR NUR
PR: NUR 3078, NUR 4828C, NUR 3805, NUR 4169 NUR 4895C. A synthesis of theory and epidemiology enabling students to promote health and wellness in populations. Current practices, policies, and laws will be explored in relation to environment, infectious disease, vulnerable populations and chronic illness.

NUR 4635L Integrated Nursing Clinical: Community/Public Health, Children and Adolescent Health, and Women’s Health (3-7) NR NUR
PR: NUR 4216, NUR 4216L. CR: NUR 4455, NUR 4636, NUR 4355. Provides clinical learning experiences in diverse community and hospital settings. Focuses on nursing care designed to prevent and/or reduce risk of disease and injury, promote health and wellness, and treat illness and injury in children, adolescents, adults and families, and diverse community populations across the age spectrum.

NUR 4636 Community/Public Health: Population-Focused Nursing MW CPST (3) NR NUR
PR: NUR 3215, NUR 3525 or NUR 3535, NUR 4216 and NUR 3215L, NUR 4216L and NUR 3525L or
NUR 4636L Community/Public Health Nursing Clinical (3) NR NUR
PR: NUR 3215, NUR 3525 or NUR 3535, NUR 4216 and NUR 3215L, NUR 4216L and NUR 3525L or NUR 3535L; CR: NUR 4636; CP: NUR 4636 or NUR 4286. The course provides clinical learning experiences in community-based sites in both urban and rural settings. Focuses on nursing care designed to prevent and/or reduce risk of disease and injury, promote health and wellness, and to diverse populations across the age spectrum.

NUR 4645 Substance Abuse Across the Lifespan (3) NR NUR
Introduction to concepts of substance abuse and theories of addiction. The applicability of theories and concepts of substance use/abuse to clinical assessment, diagnosis and intervention with client populations across the lifespan is explored.

NUR 4655 Cultural Diversity in Health and Issues (MW) (3) NR NUR
Explore the impact of culture on health, illness and the meanings these terms carry for members of differing sociocultural populations. Health-related practices, values, strategies for health care and beliefs among cultural groups will be analyzed.

NUR 4807C Leadership & Education Transitions for RNs (3) NR NUR
PR: Admission to the RN-MS Sequence (NAS/NBM) Professional practice and principles of leadership and management for licensed RNs. Focuses on decision making and managing nursing care using multiple learning strategies for academic success. Clinical experiences build upon a practice background.

NUR 4827C Leadership and Management in Professional Nursing Practice (3) NR NUR
PR: NUR 4216, NUR 4216L, NUR 4636, NUR 4636L Principles of nursing leadership and management with an emphasis on decision-making, priority-setting, delegating, and managing nursing care. Focus on the preparation of the professional nurse to work collaboratively in the interdisciplinary healthcare environment. There will be in depth examination of process improvement with a focus on the quality indicator process. Clinical experiences for registered nurse students will be designed to build upon a practice background.

NUR 4828C Foundations of Nursing Healthcare Leadership & Mgm (3) NR NUR
PR: NUR 3078, NUR 3805, NUR 4895C. Provides an overview of leadership and management theories and competencies required in today's interdisciplinary healthcare environment.

NUR 4850 Fundamentals of Healthcare Finance for RNs (3) NR NUR
PR: NUR 3078, NUR 3805, NUR 4895C. This course provides the learner with fundamental knowledge and tools to promote fiscal accountability and effectiveness when providing services as a direct care giver or nurse leader/manager.

NUR 4895C Educational Role of the Nurse in Healthcare (3) NR NUR
CR: NUR 3805, NUR 3078. Provides the learned with an opportunity to gain knowledge and skills to facilitate the teaching role of the nurse in educating patients and their families as well as nursing and healthcare staff.

NUR 4905C Independent Study (1-5) NR NUR
PR: Permission of faculty. Open to majors and non-majors. Individual or group investigation of problems relevant to the health of individuals or groups. Project requirements individually planned with faculty preceptor.

NUR 4930 Registered Nurse First Assistant Course (3) NR NUR
PR: CI. This course will provide a foundation of knowledge and technical skills necessary for the experienced preoperative registered nurse to function in the role of registered nurse first assistant (RNFA).

NUR 4935 Selected Topics In Nursing (1-8) NR NUR
PR: Junior or senior standing or permission of faculty. Content will depend upon student demand and faculty interest and may focus on any area relevant to nursing practice. May involve class, seminar, and/or clinical laboratory.

NUR 4948L Preceptorship (6) NR NUR
PR: NUR 4216, NUR 4216L; CP: NUR 4636, NUR 4636L and NUR 4635L, NUR 4455, NUR 4355, NUR 4838. Individually contracted 150 hours of clinical practicum collaboratively planned by students, faculty, and agency personnel. Opportunity to synthesize theory and clinical practice for professional nursing.

OCB 3265 Coral Reefs (3) AP BIO
PR: BSC010 or BSC 2011, either with a minimum grade of C- or better. Biology of reef animals and reef ecology; emphasis on Florida and Caribbean reefs. Classroom instruction and observation of coral reef and turtle grass communities.

OCE 2001 Introduction to Oceanography NS CANP (3) MS MSC
This is a class in basic oceanography covering chemical (what is the sea made of), physical (tides, currents, waves), geological (ocean floor and coasts) and biological (all life in the oceans) aspects, and their interactions.

OCE 4930 Selected Topics in Marine Science (1-4) MS MSC
Selected topics in marine science including marine biology, marine chemistry, marine geology and geophysics, physical oceanography, and interdisciplinary topics relating to marine environments.
COURSE DESCRIPTIONS

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ORI 2000 Introduction to Communication As Performance (3) AS SPE
Designed to develop proficiency in the understanding and oral communication of literary and other written materials.

ORI 3950 Communication As Performance Laboratory (1-3) AS SPE
PR: SPC 2608 AND COM 2000 AND ORI 2000, each with a grade of C or above, or CI. The study, rehearsal, and performance of literature for Readers Theatre and Chamber Theatre productions.

ORI 4019 Performing Identity and Culture (3) AS SPE
PR: ORI 2000. Focuses on theory and practice of identity and culture as performed in ritual, community, and aesthetic contexts. Majors only; nonmajors by permit only. May not be repeated for credit.

ORI 4120 Performance of Poetry (3) AS SPE
PR: SPC 2608 AND COM 2000 AND ORI 2000, each with a grade of C or above, or CI. Critical appreciation of lyric and narrative poetry and communication of that appreciation to audience. Study of poetic theory and prosodic techniques.

ORI 4150 Performing Nonfiction (3) AS SPE
PR: ORI 2000. Explores the genre of nonfiction, including diaries, memoirs, travelogues, new journalism, personal essays, and weblogs, through performance. For majors; nonmajors by permit. May not be repeated for credit.

ORI 4220 Performing Young Adult Literature (3) AS SPE
PR: ORI 2000. Performance of literature written for young adults with an emphasis on cultural values and beliefs. For majors; nonmajors by permit only. May not be repeated for credit.

ORI 4310 Group Performance of Literature (3) AS SPE
PR: SPC 2608 AND COM 2000 AND ORI 2000, each with a grade of C or above, or CI. Designed to introduce the student to and give experience in various forms of group approaches to performance.

ORI 4320 Writing for Performance (3) AS SPE
PR: ORI 2000. Explores the intersection of writing and performance as aesthetic and communicative practices. For majors; nonmajors by permit only. May not be repeated for credit.

ORI 4410 Performance Art (3) AS SPE

ORI 4460 Performing Relationships (3) AS SPE
PR: ORI 2000. Explores interpersonal, organizational, and intercultural theories of human relationships as realized in literary texts through performance. For majors; nonmajors permit only. May not be repeated for credit.

ORI 4931 Performance and Video (3) AS SPE
PR: ORI 2000. CR: ORI 3950. This course features adaptation, direction, and performance of literature for video productions.

ORI 5930 Topics in Performance Genres (3) AS SPE
Variable topics course.

OSE 4601 Optical Product Technology (3) EN EGR
PR: EML 3500. Overview of the operating principles, design, and construction of a broad range of optically-based products, such as: lamps, cameras, displays/monitors, night vision, cloaking, bar codes, rangefinders, locks, etc. Aimed at mechanical engineering seniors.

PAD 3003 Introduction to Public Administration SS (3) AS SPF
Examination of organizational behavior and change, policy process, public management, financial administration, and personnel management from the perspective of public and social delivery.

PAD 4144 Nonprofit Organizations and Public Policy 6A MW (3) AS SPF
Role and importance of third sector (voluntary) organizations in American society; focus on public policy through service in a voluntary organization.

PAD 4204 Public Financial Administration (3) AS SPF
Analysis of problems in the growth and development of public budgetary theory and Federal budgetary innovations.

PAD 4415 Personnel & Supervision in Today's Organizations (3) AS SPF
Introduces students to concepts, principles and practices of personnel management and supervision that influence the attainment of desired performance goals in today's public and not-for-profit organizations. Course participants will explore issues that influence the successful management of human resources in dynamic employment settings.

PAD 4712 Managing Information Resources in the Public Sector (3) AS SPF
Introduces students to the fundamental concepts, theories, principles and practices in public information management. Internet access is required.

PAD 4930 Selected Topics in Public Administration and Public Policy (3) AS SPF
Selected issues and topics in Public Administration and Public Policy with course content based on student demand and instructor's interest. May be repeated for up to 6 credits as topics vary.

PAD 5035 Issues in Public Administration and Public Policy (3) AS SPF
Sr. & GS only. Selected issues and topics in Public Administration and Public Policy.

PAD 5044 Environment of Public Administration (3) AS SPF
Examination of the legal, political, and ethical environment in which public managers work.

PAD 5605 Administrative Law and Regulation (3) AS SPF
An examination of the constitutional and statutory
base and limitations of the administrative process, administrative adjudication, rule-making, and the judicial review of such actions. An examination of the Constitutional and statutory base and limitations of the administrative process, administrative adjudication, rule-making, and the judicial review of such actions. Attention is also directed to regulatory commissions, their functions, powers, management and relationship with other branches of government.

PAD 5700 Research Methods in Public Administration (3) AS SPF
PR: MPA, GCPM, and GCNM majors only. Research design; skills in public agencies. Must be prepared to demonstrate proficiency in EXCEL, Access, and other relevant software programs.

PAD 5807 Urban and Local Government Administration (3) AS SPF
GS or Sr. Analysis of the role of the administrator at the municipal level, the division of functions, policy formation, alternative governmental structures, effects on the administrative process.

PAD 5836 Comparative Public Administration (3) AS SPF
GS or Sr. How organizations and managers perform within a particular environment, potential impact of innovation, and how service is accomplished in a variety of socio-economic environments.

PCB 3023 Cell Biology (3) AS BCM
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2210. Cell Biology is the study of living properties of cells and encompasses a broad area of the life sciences that includes cellular physiology and life cycle, organelle structure and function, and biomolecular structure and function.

PCB 3023L Cell Biology Laboratory (1) AS BCM
CP: PCB 3023. Laboratory portion of Cell Biology. Metabolic processes within the cell.

PCB 3043 Principles of Ecology (3) AS BIN
BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023. An introduction to the basic principles and concepts of ecology at the ecosystem, community, and population level of organization. Lecture only.

PCB 3043L Principles of Ecology Laboratory (1) AS BIN

PCB 3063 General Genetics (3) AS BCM
BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2210. Introduction to genetics including the fundamental concepts of Mendelian, molecular and population genetics. Lecture only.

PCB 3063L General Genetics Laboratory (1) AS BCM
CP: PCB 3063. Laboratory investigation techniques in general genetics including Mendelian and non-Mendelian relationships, and gene interactions.

PCB 3306 Stream Ecology (3) AP BIO
PR: BSC 2010, BSC 2011 and PCB 3043, all with a minimum grade of C- or better. An introduction to the ecology of streams, abiotic influences on streams, and the diversity and adaptations of stream-dwelling organisms.

PCB 3712 General Physiology (3) AS BIN
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L and CHM 2045, CHM 2046 and MAC 1105 or higher-level MAC course or STA 2023. Comparative analysis of animal structure and function: organ systems and activities of body tissue and organs. Functional responses of plants to both internal and environmental signals lecture only.

PCB 3713L General Physiology Laboratory (1) AS BIN
PR: PCB 3712. Laboratory portion of General Physiology.

PCB 4024 Molecular Biology of the Cell (3) AS BCM
PR: PCB3023, PCB3063. This lecture-based course will focus on advanced principles of molecular cell biology with emphasis on protein structure and function in key cellular pathways. The course is suitable for majors/nonmajors.

PCB 4026 Molecular Biology of the Gene (3) AS BCM
PR: PCB3023, PCB3063. This lecture-based course will provide fundamental knowledge of scientific concepts and principles of the molecular aspects of DNA metabolism in pro- and eukaryotes for majors/nonmajors.

PCB 4234 Principles of Immunology (3) AS BCM
PR: PCB 3023 or PCB 3063 or MCB 3020C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. Emphasis is on organization and functions of vertebrate immune system. Basic cellular and molecular mechanisms of immune responses in health and disease are addressed as well as the principles and applications of immunological methods. Lecture only.

PCB 4522C Experimental Genetics and Cell Biology (3) AS BCM
PR: PCB 3023, PCB 3063 and PCB 3023L or PCB 3063L. This course will teach students how to utilize and integrate concepts from genetics and cell biology in a research laboratory environment using current scientific literature, model organisms and molecular techniques.

PCB 4663 Human Genetics (3) AS BCM
PR: PCB3023, PCB3063. A lecture-based course building upon principles introduced in Cell Biology and Genetics to explore advanced topics applied to human heredity and inherited disorders. Instruction includes problem solving, group activities, Internet and individual projects.

PCB 4671 Molecular Evolution (3) AS BCM
PR: PCB 3063. The study of evolution at the molecular level and how it is applied to cell and
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>College(s)</th>
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<tbody>
<tr>
<td>PCB 4674</td>
<td>Organic Evolution</td>
<td>3</td>
<td>AS BIN</td>
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<tr>
<td>PCB 4679</td>
<td>Biology Capstone Course: Evolution</td>
<td>3</td>
<td>AM BIO</td>
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<tr>
<td>PCB 4723</td>
<td>Animal Physiology</td>
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<tr>
<td>PCB 4724</td>
<td>Mammalian Physiology</td>
<td>3</td>
<td>AS BCM</td>
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<tr>
<td>PCB 4843</td>
<td>Principles of Neuroscience</td>
<td>3</td>
<td>AS BCM</td>
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<td>PCB 5256</td>
<td>Developmental Mechanisms</td>
<td>3</td>
<td>AS BCM</td>
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<tr>
<td>PCB 5307</td>
<td>Limnology</td>
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<td>Limnology Laboratory</td>
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<tr>
<td>PCB 5616</td>
<td>Molecular Phylogenetics</td>
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<td>AS BCM</td>
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**Course Descriptions**

**PCB 4674 Organic Evolution (3) AS BIN**
- **PR:** PCB 3063. An introduction to modern evolutionary theory. Lecture on population genetics, adaptations, speciation theory, phylogeny, human evolution and related areas. Lec.-dis.

**PCB 4679 Biology Capstone Course: Evolution (3) AM BIO**
- **PR:** BSC 2010, BSC 2010L, BSC 2011, BSC 2011L; Biology majors must have senior rank. Principles of evolutionary theory are examined in the context of biological systems at all organizational levels. Required capstone course for Biology majors.

**PCB 4723 Animal Physiology (3) AS BIN**
- **PR:** PCB 3712, CHM 2210, PHY 2053 and MAC 1105 or higher-level MAC course or STA 2023. Co-PR: CHM 2211. Advanced presentation of mechanisms employed by animals to interact with their environment and to maintain their organization. Lecture only.

**PCB 4723L Animal Physiology Laboratory (1) AS BIN**
- **CR:** PCB 4723. Laboratory portion of Animal Physiology.

**PCB 4744 Mammalian Physiology (3) AS BCM**
- **PR:** PCB 3023. Detailed examination of mammalian physiology focusing on the cellular and molecular mechanisms that underlie and regulate physiological function.

**PCB 4843 Principles of Neuroscience (3) AS BCM**
- **PR:** PCB 4723 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053. **CP:** CHM 2211. Study of the mammalian brain's structure and function, with an emphasis on human neuroanatomy, neuropharmacology, and neurophysiology. Topics include brain imaging, dementia, mechanisms of learning/memory, and neuropathological processes. Lecture only.

**PCB 5256 Developmental Mechanisms (3) AS BCM**
- **PR:** ZOO 4695. Topics in modern developmental biology to be covered in lecture and through readings so as to gain a detailed understanding of cellular and molecular mechanisms of differentiation and pattern formation in various eukaryotic species for majors/non-majors.

**PCB 5307 Limnology (3) AS BIN**
- **PR:** PCB 3043 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053. **CP:** CHM 2211. An introduction to the physical, chemical, and biological nature of freshwater environments. Lecture only.

**PCB 5307L Limnology Laboratory (1) AS BIN**
- **PR:** CI. **CP:** PCB 5307. Laboratory portion of Limnology. Laboratory and field experience in the area of aquatic ecology.

**PCB 5616 Molecular Phylogenetics (3) AS BCM**
- **PR:** PCB 3063. Provides a theoretical (lecture) and practical (computer lab) framework to allow students to carry out phylogenetic analysis using molecular data. Majors or nonmajors.
PET 3312 Biomechanics (3) ED EDP
PR: Admission to the Exercise Science Program or Permission of Instructor. This course will focus on the structure and function of the skeletal and muscular systems as well as the mechanical principles related to motor performance.

PET 3314 Professional Development Seminar (1) ED EDP
PR: Admission to the Exercise Science Program. This course will introduce the student to the exercise science field. Focus will be on professional conduct, job opportunities, organizations, certifications, and trends/issues. Students will develop skills to critique fitness/wellness information.

PET 3361 Nutrition for Fitness and Sport (3) ED EDP
PR: Admission to the Exercise Science Program. This course will address weight management/weight loss, common diets, dietary supplements, ergogenic aids, and eating disorders. Content will focus on nutrition and weight management guidelines established by the American College of Sports Medicine.

PET 3364 Physical Activity Epidemiology (3) ED EDP
PR: Admission to the Exercise Science Program. A presentation of the background and main concepts of epidemiology and discussion and summary of original research. Major topics include coronary artery disease, cerebrovascular disease, peripheral vascular disease, diabetes, arthritis, and COPD.

PET 3384 Exercise Testing and Prescription (3) ED EDP
PR: Admission to the Exercise Science Program. In this course students will become proficient in performing a variety of exercise tests and prescribe appropriate exercises for aerobic capacity, muscular strength and endurance, body composition, flexibility and other parameters of physical fitness.

PET 3404 Emergency Response and Planning (3) ED EDP
PR: Admission to the Exercise Science Program. Students will develop emergency response knowledge and skills through ARC first aid emergency response, CPR/AED certifications and will proactively assess, develop and implement a plan of response for emergency situations in fitness/wellness centers.

PET 3421 Curriculum and Instruction in Physical Education (3) ED EDP
Physical Education majors only. Development of knowledge and skills related to the instruction process of physical education. Preparation of materials and planning instruction.

PET 3441 Instructional Design and Content: Middle School Physical Education (3) ED EDP
Physical Education majors only. The development of physical education content and instructional practices for middle school students. The focus is upon matching appropriate content and learning experiences to the unique needs of the pre- and early adolescent learner.

PET 3640 Adapted Physical Education (3) ED EDP
Physical Education majors only. A study of characteristics, programming needs and teaching of physical education for students with disabilities.

PET 3713 Theory and Practice of Teaching Group Exercise (3) ED EDP
PR: Admission to the Exercise Science Program. In developing group exercise leadership skills, students will learn how to apply principles of teaching safe and effective exercises designed to enhance cardiovascular endurance, muscular strength/endurance, and flexibility.

PET 3931 Selected Topics in Sports Medicine (1-3) ED EDP
DPR. Topics offered are selected to reflect student need and faculty interest.

PET 3940 Practicum in Fitness/Wellness (3) ED EDP
PR: Admission to the Exercise Science Program. This course will provide the initial field experience in a community fitness/wellness center serving general populations. Students will gain practical experience with regard to teaching group exercise and conducting fitness testing and prescription.

PET 4088 Individualized Fitness/Wellness Programming CPST (3) ED EDP
PR: Admission to the Exercise Science Program. In this course students will learn how to assess, evaluate, and design safe and effective programs for individual clients. Students will also learn how to incorporate appropriate activities for specialized clients or populations.

PET 4093 Strength and Conditioning (3) ED EDP
PR: Admission to the Exercise Science Program. This course will provide students with the information necessary for designing and implementing a successful strength and conditioning program through assessment and analysis of fitness and sport movement.

PET 4219 Exercise Psychology (3) ED EDP
PR: Admission to the Exercise Science Program. A presentation of the basic concepts related to exercise behavior. The content will include topics related to the psychosocial dimensions of exercise behavior to include participation, motivation, and adherence. Theoretical models will also be presented.

PET 4353 Exercise Physiology II (3) ED EDP
PR: APK 3120. A study of Exercise Physiology focusing on the adult. Includes specific populations such as the obese, heart patients, arthritics, elderly, and high performance athletes. Open to non-majors.

PET 4380 Applied Exercise Science (3) ED EDP
PR: Admission into the Physical Education Program. This course will explore the application of physiological and kinesiological principles to teaching physical education. Specific changes and
adapts of children as a result of exercise will be examined. Restricted to majors. Not repeatable.

PET 4401 Class Management, Safety, Ethics, Law, and Organization and Administration of Physical Education (3) ED EDP
Physical Education majors only. This course will examine the various classroom management approaches, professional ethics, school law, safety, and the organization and administration of physical education programs.

PET 4402 Planning and Evaluating Fitness/Wellness Programs (3) ED EDP
PR: Admission to the Exercise Science Program. This course will focus on the design of high quality fitness/wellness programs in worksite and other settings. Students will learn and apply the major components of program planning – needs assessment, development, implementation, and evaluation.

PET 4413 Administration of Fitness/Wellness Centers (3) ED EDP
PR: Admission to the Exercise Science Program. This course will examine management issues in the areas of human resources, budgeting, marketing, legal liability, and risk management. Students will develop skills to manage safe/effective programs and services in various fitness/wellness settings.

PET 4432 Instructional Design and Content: Physical Education Elementary (3) ED EDP
Physical Education majors only. This is the first in a two-course sequence in which students study movement forms and instructional processes suitable for elementary age students. Majors only.

PET 4442 Instructional Design and Content: Physical Education Secondary (3) ED EDP
Physical Education majors only. Development of knowledge and skills related to the teaching of selected movement activities such as team sports, gymnastics, and physical fitness. Focus is on understanding mechanical principles utilized within those activities as well as on instructional progression and the preparation of materials for instruction at the secondary school level.

PET 4510 Measurement and Evaluation in Physical Education (3) ED EDP
PR: Admission to physical education program. A study of the principles and techniques of educational measurement as applied to the teaching of physical education; study of the functions and techniques of measurement in the evaluation of student progress toward the objectives of physical education.

PET 4550 Clinical Exercise Testing and Prescription (3) ED EDP
PR: Admission to the Exercise Science Program. A presentation of concepts related to the clinical aspects of fitness assessment and exercise programming. Clinical conditions that will be considered include: cardiovascular disease, pulmonary disease, metabolic disease, arthritis, and geriatrics.

PET 4742 Secondary Physical Education Methods: Physical Act (3) ED EDP
PR: Admission to the Physical Education program. The course will prepare students to plan and conduct PE programs which meet National and State Content Standards related to physical activity, fitness, nutrition, and healthy living concepts. PE majors only. Not repeatable for credit.

PET 4765 Scientific Principles of Athletic Coaching (3) ED EDP
Physical Education majors only. The application of principles from philosophy, psychology, sociology, and physiology to competitive athletics and coaching.

PET 4820 Sport Skill Proficiency (2) ED EDP
PR: Admission to the undergraduate physical education teacher education program. This course is designed to assist students in becoming proficient in and acquiring a foundation of the fundamental physical skills necessary to participate in and teach a variety of individual and team sports. Course restricted to PE majors.

PET 4844 Methods of Using Technology in Physical Education (3) ED EDP
PR: Admission into the undergraduate physical education program. The purpose of this course is to familiarize undergraduate physical education majors with technology skills to support and enhance pedagogical strategies in a K-12 physical education setting. Restricted to majors.

PET 4905 Independent Study: Professional Physical Education (1-4) ED EDP
PR: DPR. S/U only. Specialized independent study determined by the student's needs and interests.

PET 4931 Selected Topics in Sports Medicine (3) ED EDP
PR: PET 3310, APK 3120. Pertinent and timely topics in sports medicine will be discussed. Topics and issues may vary but could include psychology of injury, environmental issues, reimbursement, pharmacology, ethical/legal issues, and performance enhancement. A.T. majors only.

PET 4941 Internship in Fitness/Wellness (9) ED EDP
PR: Admission to the Exercise Science Program. This course will provide the final field experience in a community fitness/wellness center serving both general and special populations. Practical experiences will focus on all aspects of program development, delivery, and management.

PET 4942 Physical Education Pre-Internship: Elementary (3) ED EDP
PR: CC. A part-time internship in elementary school physical education. Focus on the nature of the total elementary school curriculum, characteristics of students, and application of appropriate content and instructional competencies.

PET 4944 Physical Education Pre-Internship: Secondary (3) ED EDP
CC. A part-time internship in middle or high school level physical education with focus on the
relationship of physical education to the needs of the adolescent and the implementation of appropriate content and methodology.

PET 4946 Internship in Physical Education: Elementary CPST (6) ED EDP
CC. A full-time internship in the elementary school in which the student undertakes the full range of teaching responsibilities in elementary physical education.

PET 4947 Internship in Physical Education: Secondary (6) ED EDP
S/U only. Physical Education majors only. A full-day internship in middle, junior or senior high school physical education programs with focus on the implementation of appropriate content and methodology to meet the needs of secondary students.

PGY 2401C Beginning Photography (3) FA ART
Introduction to the expressive possibilities of photographic media. Projects and assignments will introduce students to both traditional and experimental ways of working with light-sensitive materials with an emphasis on the interdependence of form, technique, and concept. The course will also provide an overview of significant trends and directions in contemporary art photography.

PGY 3410C Intermediate Photography (3) FA ART
PR: ART 2201C, ART 2203C, ART 2301C, ART 3310C, ARH 2050, ARH 2051, PGY 2401C. Majors only. A mid-level course expanding the student's visual and technical skills while establishing the beginning of a personal artistic direction. Repeatable up to 9 hours.

PGY 3610C Photojournalism I (3) AS COM

PGY 3620 Photojournalism II (3) AS COM
PR: PGY 3610C. Laboratory required. Advanced process and practice of photography for publication.

PGY 3820C Digital Media I (3) FA ART
Restricted to majors. This course builds upon the concepts introduced in Introduction to Multimedia Systems and focuses upon digital photographic creation and editing.

PGY 3930C Special Topics: Photography (3) FA ART
PR: ART 2201C, ART 2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, PGY 2401C, PGY 3410C. Majors only. A mid-level course expanding the student's visual and technical skills while establishing the beginning of a personal artistic direction by exposing the student to new ideas, technical skills and genres, including, but not limited to: color photography, digital photography, non-silver and documentary photography. Repeatable up to 9 hours.

PGY 4420C Advanced Photography (3) FA ART
PR: PGY 3410C (3 cr.), PGY 3930C (9 cr.) and a 3.25 major GPA. Majors only. Continued problems in photography. May be repeated.

PGY 4822C Digital Media II (3) FA ART
Restricted to majors. This course builds upon the concepts introduced in Digital Media I and focuses upon digital photographic, web and digital video creation.

PHC 3302 Introduction to Environmental & Occupational Health (3) PH EOH
Introduces the principles of environmental health from a public health perspective. This course is designed for students with an interest in the environment, assessment of risk, human health issues, and control strategies to reduce health risks.

PHC 3320 Environmental Health Science (3) PH EOH
Introduces students to environmental health science topics in the context of their impact on human and public health. It is open to all major programs. It may not be repeated for credit.

PHC 3721 Research Methods in Env & Occ Health (3) PH EOH
The purpose of this course is to provide a broad overview of the instruments and techniques used in contemporary environmental and occupational health science. It is open to all major programs. It may not be repeated for credit.

PHC 4030 Introduction to Epidemiology (3) PH EPB
Course provides an overview of epidemiological methods and the application to understanding health- and non-health issues. Students will develop critical thinking skills and apply the concepts applied problems, both in and outside the field of health.

PHC 4031 Emerging Infectious Diseases (3) PH PHC
This course addresses important infectious diseases and the principles of detection, diagnosis, prevention and control as well as the impact on public health. Students will presenting information on emerging infectious disease trends in group projects.

PHC 4032 Foundations of Infection Control (3) PH PHC
This course is based on infection control competencies from the board certification in infection control exam. With successful completion of this course, students will demonstrate mastery and application of these principles to real-world situations.

PHC 4069 Biostatistics in Society (3) PH EPB
This course exposes students to the role of biostatistics in advancing healthcare and improving health through landmark studies and cases in a wide range of fields, including clinical trials, epidemiology, environmental studies, and healthcare evaluation.

PHC 4101 Introduction to Public Health (3) PH PHC
A survey of policies and programs in
COURSE DESCRIPTIONS

PHC 4109 Public Health Biology (3) PH PHC
This course offers a biological perspective on public health issues related to chronic and infectious diseases. This course provides an overview of basic biological concepts, molecular biology, and infectious and chronic diseases of public health concern.

PHC 4140 Introduction to Public Health Geographic Information Systems (3) PH PHC
This course covers the theory and application of geographic information systems (GIS) for public health and includes an overview of the principles of GIS and its use.

PHC 4188 Public Health Emergencies in Large Populations (3) PH PHC
This course is designed to develop or improve the skills of persons interested in providing emergency health services in global humanitarian emergencies for refugees and displaced populations.

PHC 4234 Public and Private Continuity Planning for Emergencies (3) PH PHC
This course identifies, examines and integrates the diverse emergency management, crisis management, contingency planning, and organizational continuity, recovery and restoration issues facing public and private sector organizations.

PHC 4241 Psychology of Fear & Mental Health Issues Related to Disasters (3) PH PHC
This course covers how emergency management better meets the needs of children, families, and communities after a disaster through well-timed targeted/response and interventions.

PHC 4375 Community Participation in Homeland Security (3) PH PHC
This course is intended as an introduction to the role of volunteers in emergency management.

PHC 4376 Disaster by Design: Exercise Development for Homeland Security Professionals (3) PH PHC
This course is an introduction to the Homeland Security Exercise and Evaluation Program and will discuss the role of planning, training, and exercises in the context of organizational preparedness for emergency management related activities.

PHC 4406 Pop Culture, Vices and Epidemiology (3) PH EPB
Encourages students to think how everyday things affect the public's health and safety. Topics in this class include: Alcohol, Sex, Coffee, Chocolate, Sleep and Tobacco. This class will cover health benefits and consequences of these things and more.

PHC 4542 Stress, Health and College Life (3) PH CFH
The purpose of this course is to examine the relationship between stress, as a multi-casual concept, health and disease. Focus areas include: the historical evolution and current theories of stress as they relate to types of stressors, physiological reactions and predisposition to disease, and techniques related to the recognition and prevention of an unhealthy level of stress.

PHC 4592 Public Health Genetics (3) PH PHC
PR: BSC 1005 or BSC 1020. This course will introduce the fundamental principles of genetics to the field of public health by discussing basic concepts and how advances in human genetics, genomics and molecular biotechnology are to improve public health and prevent diseases.

PHC 4720 Foundation to Professional Writing in Public Health 6A WRIN (3) PH EPB
This course provides students the opportunity to learn about all aspects of professional writing techniques including grammar and spelling errors, writing styles, authorship, reference and citation systems, and guidance for scientific communication.

PHC 4931 Health Care Ethics (3) PH EOH
This course provides the student with a broad overview of health care ethics. Will cover ethical issues that concern a wide variety of health professionals who are interested in clinical issues that concern a wide variety of health professionals in their practice and researchers.

PHC 4942 Public Health Field Seminar (2-3) PH EPB
PR: PHC 4101. This course provides students with an overview of field experiences in public health. Representatives from public health organizations will speak about worksites. Students will observe public health professionals in their practice environment. Repeatable for a maximum of 12 credit hours.

PHC 5933 Special Topics (1-3) PH PHC
Provides students the opportunity to learn about the multiple ways to view controversial topics in public health. It covers current public health topics including biomedical issues, social and behavioral factors, and environmental issues.

PHH 2000 Introduction to Philosophy 6A HP CAHU (3) AS PHI
An introduction to major themes in philosophy, as well as central philosophical concepts, texts, and methods.

PHH 3062 History of Western Philosophy: Ancient Philosophy (3) AS PHI
A survey of Western philosophy from the Pre-Socratics to Late Antiquity.

PHH 3280 Medieval and Renaissance Philosophy (3) AS PHI
This course is a survey of medieval and early Renaissance philosophy in the Latin West, focusing on the thought of Augustine, Anselm, Peter Abelard, Thomas Aquinas, John Duns Scotus, and William Ockham.

PHH 3420 Early Modern Philosophy (3) AS PHI
A survey of Western Philosophy from the end of the Renaissance to the beginnings of the Enlightenment.
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<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Core Area</th>
<th>Notes</th>
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<td>Late Modern Philosophy</td>
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<td>A survey of Western Philosophy during the Enlightenment.</td>
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<td>Continental Philosophy</td>
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<td>A study of developments in post-Kantian European philosophy.</td>
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<td>Contemporary Philosophy</td>
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<td>Selected schools of twentieth century thought such as idealism,</td>
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<td>Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy in</td>
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<td>relation to American culture.</td>
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<td>PHH 4820</td>
<td>Chinese Philosophy</td>
<td>3</td>
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<td></td>
<td>A survey of Confucianism, Taoism and other aspects of Chinese thought.</td>
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<td>The course is available to both majors and non-majors and does not</td>
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<td></td>
<td>have laboratory sections associated with it.</td>
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<td>PHI 1103</td>
<td>Critical Thinking</td>
<td>3</td>
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<tr>
<td></td>
<td>Critical thinking is the mind's faculty for catching its own</td>
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<td>(potential or actual) mistakes, and correcting its own</td>
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<td>misapprehensions. We will hone this faculty by practicing the</td>
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<td>critical evaluation of real-world decisions.</td>
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<td>PHI 1401</td>
<td>Science and Society</td>
<td>3</td>
<td>PHI</td>
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<td></td>
<td>As consumers of scientific information, it is our social</td>
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<td>obligation to understand how scientific knowledge comes about.</td>
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<td>This course is about the process of scientific inquiry, and about</td>
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<td>scientific knowledge as the product of such inquiry.</td>
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<td>PHI 1600</td>
<td>Introduction to Ethics</td>
<td>3</td>
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<td>In order to promote reflection concerning how we should act and</td>
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<td></td>
<td>what kinds of people we should be, this course introduces students</td>
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<td></td>
<td>to ethical theories, concepts, problems, and methods.</td>
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<td>PHI 2101</td>
<td>Introduction to Formal Logic</td>
<td>3</td>
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<td>This course is an introduction to the basic terms, concepts,</td>
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<td></td>
<td>and methods of formal logic.</td>
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<td>PHI 2630</td>
<td>Contemporary Moral Issues</td>
<td>3</td>
<td>PHI</td>
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<td></td>
<td>Open to all students. A study of contemporary moral issues</td>
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<td></td>
<td>concerning racism, sex, sexism, abortion, poverty, crime, war,</td>
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<td></td>
<td>suicide, and human rights in general.</td>
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<td>PHI 2631</td>
<td>Ethics and Business</td>
<td>3</td>
<td>PHI</td>
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<td></td>
<td>An application of traditional ethical theories to contemporary</td>
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<td>problems in business.</td>
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<td>PHI 3130</td>
<td>Formal Logic</td>
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<td>PR: PHI 2101 or MGF 1106 or MGF 1107 or one semester of calculus.</td>
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<td>A study of predicate calculus, predicate calculus with identity,</td>
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<td>formal semantics, and elementary metalogic. Strongly recommended</td>
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<td>for philosophy majors.</td>
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<td>PHI 3404</td>
<td>Philosophy of Science</td>
<td>3</td>
<td>PHI</td>
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<td></td>
<td>How is science different from other methods of inquiry about the</td>
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<td>world? What distinguishes science from pseudoscience? From religion?</td>
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<td>How do we test scientific theories? What are the factors that lead</td>
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<td>scientists to accept a theory?</td>
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<td>PHI 3633</td>
<td>Biomedical Ethics</td>
<td>3</td>
<td>PHI</td>
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<td></td>
<td>This course will focus on the ethical issues arising from</td>
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<td>advances in medical practice, delivery of health care, and</td>
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<td>scientific research.</td>
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<td>PHI 3636</td>
<td>Professional Ethics</td>
<td>3</td>
<td>PHI</td>
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<td>An examination of the ethical problems that professionals will face</td>
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<td>in the complex, global society of the next few decades:</td>
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<td>confidentiality, divided loyalty, racism/sexism, etc.</td>
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<td>PHI 3640</td>
<td>Environmental Ethics</td>
<td>3</td>
<td>PHI</td>
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<td>A study of alternative theories of environmental ethics,</td>
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<td>including the application of these theories to contemporary</td>
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<td>environmental problems, such as pollution, resource depletion,</td>
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<td>species extinction, and land use.</td>
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<td>PHI 3700</td>
<td>Philosophy of Religion</td>
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<td>Analysis of religious experience and activity and examination of</td>
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<td>principal religious ideas in light of modern philosophy.</td>
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<td>PHI 3930</td>
<td>Selected Topics</td>
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<td>PR: CI. Selected topics according to the needs of the student.</td>
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<td>PHI 4073</td>
<td>African Philosophy</td>
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<td>A descriptive and analytical study of African philosophical thought,</td>
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<td>featuring reflective comparisons of African and Western categories of</td>
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<td>thought.</td>
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<td>PHI 4320</td>
<td>Philosophy of Mind</td>
<td>3</td>
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<td>A study of historical and current issues in philosophy of mind,</td>
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<td>including the nature and status of mind, mind/body dualism,</td>
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<td>the relationship of mind and body, the problems of other minds,</td>
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<td>the physical basis for intelligence.</td>
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<td>PHI 4632</td>
<td>Feminist Ethics</td>
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<td>A study of the varied approaches to moral reasoning taken by</td>
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<td>feminist ethical writers such as Wollstonecraft, Mill, Gilligan,</td>
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<td>Daly, Hoagland and others.</td>
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<td>PHI 4670</td>
<td>Contemporary Ethical Theory</td>
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<td>A survey of contemporary ethical theory, focusing both on the</td>
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<td>literature about the status of ethical theorizing--moral</td>
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<td>skepticism, moral nihilism, narrative ethics--and on specific</td>
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<td>types of theories--deontological theories, consequentialist</td>
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<td>theories, rights-based theories, virtue theories.</td>
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<td>PHI 4800</td>
<td>Aesthetics</td>
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<td>Study of traditional and contemporary aesthetic theories with</td>
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<td>emphasis on creative process, the nature of the art work, the</td>
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<td>aesthetic response,</td>
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expressiveness, form and content, as well as art and morality.

PHI 4905 Directed Study (1-4) AS PHI
PR: CI. Approval slip from instructor required. Individual study directed by a faculty member.

PHI 4930 Selected Topics (1-3) AS PHI
PR: CI. Approval slip from instructor required. Selected topics according to the needs of the senior students.

PHI 4938 Philosophy Capstone Seminar 6A CPST (3) AS PHI
PR: Junior or senior standing; declared philosophy major. Exit course for philosophy majors. Topics will vary at instructor’s discretion, but are expected to span conventional boundaries between the branches of philosophical inquiry.

PHI 5135 Symbolic Logic (3) AS PHI
PR: PHI 2101 or CI. Study of topics such as the following: Metatheory of propositional and predicate logic, related metatheoretic results, alternative logic.

PHI 5225 Philosophy of Language (3) AS PHI
PR: Eight hours of philosophy, major in linguistics, or CI. An examination of semantically, syntactically, and functional theories of language with special attention given to the problems of meaning, linguistic reference, syntactical form, and the relations between scientific languages and ordinary linguistic usage. Seminar format.

PHI 5913 Research (1-4) AS PHI
PR: CI. Approval slip from instructor required. Individual research supervised by a faculty member.

PHI 5934 Selected Topics (1-3) AS PHI
PR: CI. Approval slip from instructor required. Selected topics according to the needs of the student.

PHM 3020 Philosophies of Love and Sex (3) AS PHI
Discussion of Philosophies of Love/Sex of Plato, Aristotle, Epicurus, Aquinas, Hume, Kant, Schopenhauer, Russell, Sartre, Marx, etc.

PHM 3100 Social Philosophy 6A SS HP (3) AS PHI
An analysis of rival theories of social order and their philosophical foundations.

PHM 3400 Introduction to Philosophy of Law (3) AS PHI
A study of the fundamental concepts of law from a philosophical standpoint including crime, justice, punishment, free speech, insanity.

PHM 4120 Major Black Thinkers MW (3) AS AFA
PR: Junior or Senior standing. Survey of major themes and issues in African/African-American intellectual and political thought with an emphasis on theories of nationalism. Works of individuals such as Martin Delany, Booker T. Washington, W. E. B. DuBois, Marcus Garvey, Malcolm X, and Angela Davis are considered.

PHM 4331 Modern Political Philosophy 6A MW WRIN (3) AS PHI
A survey of political philosophy from 1600 A.D. until 1900 A.D., including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.

PHM 4340 Contemporary Political Philosophy 6A MW (3) AS PHI
A survey of political philosophy in the twentieth century, including an examination of the ethical, metaphysical and epistemological bases of these philosophies.

PHM 5125 Topics in Feminist Philosophy (3) AS PHI
A study of recent feminist philosophical approaches to epistemology, aesthetics and political philosophy. May also be taken for credit in Women's Studies.

PHM 5126 Social Issues in Biomedical Ethics (3) AS PHI
An examination of the social and political issues arising from rapid changes in medicine and technology. Topics covered may include social issues related to the just distribution of health care, reproductive technologies, HIV and AIDS, eugenics, genetic testing, and maternal-fetal relations.

PHP 3786 Existentialism 6A HP (3) AS PHI
A study of the religious and atheistic existentialists and the bearing of their views on religion, ethics, metaphysics, and theory of knowledge.

PHP 4000 Plato 6A MW (3) AS PHI
The examination of Plato will include the dialogues Protagoras, Georgias, Meno, Republic.

PHP 4010 Aristotle 6A MW (3) AS PHI
Study of Aristotle's philosophy.

PHP 4410 Kant (3) AS PHI
Lecture and discussion of Kant's philosophy, especially the Critique of Pure Reason.

PHP 4784 Analytical Philosophy 6A (3) AS PHI
A study of the method devoted to clarifying philosophical problems through analysis of the language in which these problems are stated.

PHP 4788 Philosophy of Marxism 6A MW (3) AS PHI
A critical survey of Marxist philosophy from Marx and Engels to Mao Tse-Tung and Herbert Marcuse. Hegelian foundations of Marxist philosophy analyzed in detail.

PHY 2020 Conceptual Physics NS CANP (3) AS PHY
No credit for Physics or Mathematics majors. A qualitative investigation of physics concepts. Emphasis is placed on using physics to describe how common things work. No previous physics knowledge required.

PHY 2048 General Physics I - Calculus Based NS CANP (3) AS PHY
PR: MAC 2281 or MAC 2311. Must be taken concurrently with lab and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2053 and PHY 2048 courses. First semester of a two semester sequence of calculus based general physics which includes a study of mechanics, heat, and fluids.

PHY 2048L General Physics I Laboratory (1) AS PHY
PR: MAC 2281 or MAC 2311. Must be taken concurrently with lecture and, if dropped, then dropped simultaneously. May not receive credit for
PHY 2054L General Physics II Laboratory (1) AS PHY
PR: MAC 2282 or MAC 2312, PHY 2048. Must be taken concurrently with lecture and, if dropped, then dropped simultaneously. May not receive credit for both the PHY2054L and PHY 2049 courses. Second semester of calculus based general physics. Topics studied include wave mechanics, electricity and magnetism, and optics.

PHY 2049L General Physics II Laboratory (1) AS PHY
PR: MAC 2282 or MAC 2312, PHY 2048, PHY 2048L. Must be taken concurrently with lecture and, if dropped, then dropped simultaneously. May not receive credit for both the PHY2054L and PHY 2049L courses. Second semester of general physics and laboratory for physics majors and engineering students.

PHY 2053 General Physics I NS CANP (3) AS PHY
PR: MAC 1140 and MAC 1114, or MAC 1147. Must be taken concurrently with lab and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2053 and PHY2048 PH 2048 courses. First semester of a two semester sequence of non-calculus-based general physics (mechanics, heat, wave motion, sound, electricity, magnetism, optics, modern physics) for science students.

PHY 2053L General Physics I Laboratory (1) AS PHY
Must be taken concurrently with lecture and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2053L and PHY 2048L courses. First semester of a two semester sequence of general physics (mechanics, heat, wave motion, sound, electricity, magnetism, optics, modern physics) laboratory for science students.

PHY 2054 General Physics II NS CANP (3) AS PHY
PR: PHY 2053, PHY 2053L. Must be taken concurrently with lab and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2054 and PHY 2049 courses. Second semester of non-calculus based general physics. Topics studied include electricity and magnetism, optics and modern physics.

PHY 2054L General Physics II Laboratory (1) AS PHY
PR: PHY 2053, PHY 2053L. Must be taken concurrently with lecture and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2054L and PHY 2049L courses. Second semester of general physics lab for science students.

PHY 2060 Enriched General Physics I with Calculus (3) AS PHY
PR: MAC 2311 or MAC 2281 with minimum grade of 'A,' and completion of high school physics or exposure to physics in previous college course, or instructor consent. CR: Registration in the associated section of PHY 2048L. First semester of an enriched sequence of calculus based general physics designed for physics majors and other students seeking a deeper understanding of mechanics, kinematics, conservation laws, central forces, harmonic motion, and mechanical waves.

PHY 2061 Enriched General Physics II with Calculus (3) AS PHY
PR: MAC 2312 or MAC 2282 and PHY 2060 with a minimum grade of B, or instructor consent. CR: Registration in the associated section of PHY 2049L. Second semester of an enriched sequence of calculus based general physics designed for physics majors and other students seeking a deeper understanding of thermodynamics, electricity, magnetism, electromagnetic fields and waves, circuits, and optics.

PHY 3101 Modern Physics (3) AS PHY

PHY 3220 Classical Mechanics (4) AS PHY

PHY 3221 Mechanics I (3) AS PHY
PR: PHY 3101 and PHZ 3113. First semester of a two-semester sequence. Review of vector algebra and vector calculus. Dynamics of single particles and systems of particles; central forces; rotation about an axis; statics; and virtual work.

PHY 3323 Electricity and Magnetism I (3) AS PHY

PHY 4031 Great Themes in Physics 6A MW (3) AS PHY

PHY 4151 Computational Physics (3) AS PHY
PR: PHY 3101 or CI. Computer application in physics. Emphasis on numerical modeling and
simulation of physics problems using linear algebra, differential equations and Monte Carlo methods. No prior programming experience required.

**PHY 4222 Mechanics II (3) AS PHY**
PR: PHY 3221. Continuation of PHY 3221. Coupled oscillators and normal modes; moving coordinate systems; Lagrange's and Hamilton's equations; inertia tensor; general rotation of rigid bodies.

**PHY 4324 Electricity and Magnetism II (3) AS PHY**
PR: PHY 3323. Introduction to special relativity, magnetic fields and potentials, magnetic materials, RL and RLC circuits, Maxwell's equations and applications.

**PHY 4424 Optics (3) AS PHY**
PR: PHY 3101 or CI. Reflection, refraction, dispersion, interference, diffraction and polarization.

**PHY 4523 Statistical Physics (3) AS PHY**
PR: PHY 3221 or PHY 3323 of PHY 4604. Statistical approach to thermodynamics and kinetic theory and introduction to statistical mechanics.

**PHY 4604 Introduction to Quantum Mechanics (3) AS PHY**
PR: PHY 3101 and PHZ 3113. Basic concepts of quantum mechanics with applications in atomic, nuclear, and condensed matter Physics.

**PHY 4605 Quantum Mechanics II (3) AS PHY**
PR: PHY 4604. Second semester of a two-semester sequence in quantum mechanics. Focus given to applications of Schroedinger equation.

**PHY 4744C Introduction to Electronics and Test Instrumentation (3) AS PHY**
PR: PHY 3822L or CI. Introduces the fundamentals of analog and digital electronics used in measurements and instrumentation. Weekly labs give hands-on experience in breadboarding electronic circuits and using test instrumentation (oscilloscopes, digital multimeters, etc.)

**PHY 4823L Advanced Laboratory (3) AS PHY**
PR: PHY 3822L. Experimental work primarily related to modern physics. Emphasis on experimental techniques used in current research.

**PHY 4905 Independent Study (1-3) AS PHY**
PR: CI. S/U only. Specialized, independent study determined by the student's need and interest. The written contract required by the College of Arts and Sciences specifies the regulations governing independent study.

**PHY 4910 Undergraduate Research (1-4) AS PHY**
PR: Senior or advanced junior standing and CC. S/U only. An individual investigation in the laboratory or library or both, under the supervision of the instructor. Credit hours and other contractual terms, are to be determined by student/instructor agreement.

**PHY 4930 Undergraduate Seminar (1) AS PHY**
PR: Senior or advanced junior standing or CC. S/U only. All undergraduate physics majors must enroll in this course at least once. Regular attendance is required. This course introduces students to the research areas in the Physics Department.

**PHY 4936 Selected Topics in Physics (1-4) AS PHY**
PR: Senior or advanced junior standing and CC. Each topic is a course in directed study and under the supervision of a faculty member.

**PHY 5720C Electronics for Research (3) AS PHY**
A rigorous introduction to the fundamentals of analog and digital electronics. Theoretical circuit analysis and weekly labs introduce practical use of diodes, transistors, analog and digital ICs, breadboarding techniques and electronics test instrumentation. Spring Semester.

**PHY 5937 Selected Topics in Physics (1-4) AS PHY**
PR: Senior or advanced standing and CC. Each topic is a course in directed study under the supervision of a faculty member.

**PHZ 2102 Problems in General Physics I (1) AS PHY**
CR: PHY 2048 or PHY 2053. First semester of a two-semester sequence on solving problems in General Physics I. A course designed to be taken with the lecture course and to help students with developing problem-solving skills.

**PHZ 2103 Problems in General Physics II (1) AS PHY**
CR: PHY 2049 or PHY 2054. Second semester of a two-semester sequence on solving problems in General Physics II. A course designed to be taken with the lecture course and to help students with developing problem-solving skills.

**PHZ 3113 Mathematical Methods in Physics (3) AS PHY**
PR: PHY 2049. CP: MAC 2283 or MAC 2313. The course is designed to develop the basic mathematical skills required in subsequent courses in physics, as well as form the basis for a fundamental understanding of the mathematics needed for the study of physics.

**PHZ 4151C Computational Physics (3) AS PHY**
Introduction to computer applications in physics. Emphasis on numerical modeling and simulation of physics problems using linear algebra, differential equations and Monte Carlo methods. No prior programming experience required.

**PHZ 4434 Materials Physics NS (3) AS PHY**
PR: PHY 2048, PHY 2049, PHY 3101. The physics and physical properties of materials. Strong emphasis is on the underlying physics of materials. Particular topics covered include crystal structure, phase, and electrical, thermal, optical, and magnetic properties of materials.

**PHZ 4702 Applications of Physics to Biology and Medicine I (4) AS PHY**
PR: PHY-2054, PHY-2054L or PHY-2049, PHY 2049L The first semester of a two-semester sequence, to discuss the applications of the physical concepts introduced in the General Physics sequence to biological systems and for medical applications. Restricted to non-majors.

**PHZ 4703 Applications of Physics to Biology and Medicine II (4) AS PHY**
PR: PHY-2054, PHY-2054L or PHY-2049, PHY
PHZ 5115 Methods of Theoretical Physics I (3) AS PHY
PR: MAP 2302 or CI. Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space, orthogonal functions, generalized functions, Fourier analysis, transform calculus, and variational calculus.

PHZ 5116 Methods of Theoretical Physics II (3) AS PHY
PR: MAP 2302 or CI. Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory.

PHZ 5154C Introduction to Computational Physics (3) AS PHY
Introduction to the use of computers for solving problems in physics. No programming experience required.

PHZ 5156C Computational Physics I (3) AS PHY
PR: CGS 5765 or CI. C programming applied to real science and engineering problems. Data analysis, numerical algorithms, modeling, parallel computation. Subjects selected from current research may include neurobiology, quantum magnetism, chaos, finance, materials science.

PHZ 5405 Solid State Physics I (3) AS PHY
PR: PHY 3101, MAP 2302, CI. Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors. First semester of sequence PHZ 5405, PHZ 6426.

PHZ 5430 Introductory Physics of Materials (3) AS PHY
Phenomenological introduction to the structural, thermal, electrical, magnetic, mechanical, and optical properties of materials.

POR 1120 Beginning Portuguese I (4) AS WLE
CR: POR 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.

POR 1120L Beginning Portuguese I Laboratory (1) AS WLE
CR: POR 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

POR 1121 Beginning Portuguese II (4) AS WLE
PR: POR 1120 or equivalent. CR: POR 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.

POR 1121L Beginning Portuguese II Laboratory (1) AS WLE
CR: POR 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

POR 2200 Intermediate Portuguese I (3) AS WLE
POR 2200 builds upon the four language skills (speaking, comprehension, reading, and writing) introduced in POR 1120 and POR 1121.

POR 2201 Intermediate Portuguese II (3) AS WLE
For language students who intend to attain basic proficiency.

POR 4905 Directed Study (1-5) AS WLE
Course permits study options in Portuguese not available in the regularly scheduled curriculum at departmental discretion. May be repeated up to 10 credit hours. Departmental approval required.

POR 4930 Selected Topics (1-5) AS WLE
Course permits study options in Portuguese not available in the regularly scheduled curriculum at departmental discretion. May be repeated up to 10 credit hours. Departmental approval required.

POS 2041 American National Government (3) AS GIA
Analysis of basic principles and procedures of the American governmental system with emphasis on current issues and trends.

POS 2080 The American Political Tradition SS HP (3) AS GIA
This course is an introductory survey of the historical developments and changes in American political institutions, processes, and thought.

POS 2112 State and Local Government and Politics (3) AS GIA
Analysis of the structure and function of state and local governments, of the social and political influences that shape them, and of the dynamics of their administrative processes.

POS 3142 Introduction to Urban Politics and Government (3) AS GIA
Governmental and political structures and processes as they function in urban areas, with special focus on municipalities and locally based public services.

POS 3173 Southern Politics (3) AS GIA
Examines changes in electoral politics in the South, and the role of interest groups and the state and federal government in facilitating change.

POS 3182 Florida Politics and Government (3) AS GIA
A study of Florida political culture, political parties and elections, the legislative, executive, and judicial systems, and policy patterns.

POS 3283 Judicial Process and Politics (3) AS GIA
The organization, development, and functioning of American court systems and the causes and consequences of judicial behavior from an empirical perspective.
## COURSE DESCRIPTIONS

### POS 3453 Political Parties and Interest Groups (3) AS GIA
Analysis and understanding of role, functions, structure, and composition of such, and their impact on American governmental institutions.

### POS 3691 Introduction to Law and Politics (3) AS GIA
Nature of law, legal process, relationship to political life of constitutional law, administrative law, the judicial process, and private law.

### POS 3697 Environmental Law (3) AS GIA
Examines some of the major issues involving environmental law. Specially, the course provides a survey and analysis of statutes, both state and federal, regulating water, air, soil pollution, and resource conservation and recovery. It will also address questions pertaining to problems of implementation, interpretation, enforcement, and development of environmental laws.

### POS 3713 Empirical Political Analysis (3) AS GIA
Fundamentals of empirical political inquiry: systematic data collection and quantitative analysis techniques. Laboratory exercises using the computer are required.

### POS 3931 Selected Topics (3) AS GIA
Selected topics in political science with course content based upon student demand and instructor's interest.

### POS 4204 Political Behavior, Public Opinion, and Elections (3) AS GIA
Analysis of economic and socio-psychological factors influencing mass and elite political behavior; voting behavior, public opinion, and political activism.

### POS 4413 The American Presidency 6A (3) AS GIA
The presidency as a political institution; analysis of powers; legislative, administrative, political, and foreign policy leadership; crisis management and decision making; White House staffing; limits on power.

### POS 4424 The American Congress (3) AS GIA
Organization, procedures, committee system, party leadership, relations with governmental and non-governmental organizations and agencies, oversight, decision-making processes, House/Senate comparisons.

### POS 4614 Constitutional Law I (3) AS GIA
PR: POS 2041. Leading social problems, principle institutions, and the scope of powers. Analysis of Supreme Court decisions, scholarly commentaries, and the writings of leading public figures.

### POS 4624 Constitutional Law II (3) AS GIA
PR: POS 2041. Analysis of Supreme Court decisions and scholarly commentaries on the constitutional rights of individuals.

### POS 4693 Women and Law I (3) AS WST
Introduction to issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law, focusing on constitutional and family law and reproductive freedom issues.

### POS 4694 Women and Law II 6A MW (3) AS WST
PR: POS 4693 or CI. Legal position of women in American society and remedies available to challenge current laws and practices, with specific emphasis on employment and education issues as they relate to both women and men.

### POS 4905 Independent Study (1-3) AS GIA
PR: 3.0 average in Political Science and CI. S/U only. Specialized study determined by the student's needs and interests.

### POS 4910 Individual Research (1-3) AS GIA
PR: 3.0 average in Political Science and CI. Investigation of some aspect of political science culminating in the preparation of an original research paper.

### POS 4936 Senior Seminar (3) AS GIA
PR: Senior standing and CI. An opportunity to work with others in a seminar format, exploring specialized topics.

### POS 4941 Field Work (3-15) AS GIA
PR: 3.0 average in Political Science and CI. Opportunity for students to obtain practical experience as aides to agencies of government and political parties.

### POS 4970 Honor Thesis (3) AS GIA
PR: Admission to Honor option. Writing of honor thesis under direction of faculty members.

### POS 5159 Urban Policy Analysis (3) AS GIA
Application of policy framework for urban government & policies. Examine forms of government and how policies such as economic development, law enforcement, community policing, neighborhood policies (with non-profit groups) can be analyzed.

### POT 3003 Introduction to Political Theory (3) AS GIA
Examines various kinds of theory used in political science for understanding political life: normative theory, empirical theory, historicism theory, analytical theory, and critical theory.

### POT 3013 Classical Political Theory (3) AS GIA
Analysis of basic ideas of Plato, Aristotle, Cicero, St. Thomas, and other leading pre-modern political philosophers.

### POT 4054 Modern Political Theory (3) AS GIA
Analysis of basic political ideas of Machiavelli, Hobbes, Locke, Rousseau, Burke, and other modern philosophers.

### POT 4064 Contemporary Political Thought (3) AS GIA
Examines various political views and political phenomena in the nineteenth and twentieth centuries. Diverse theoretical types and salient political phenomena will be presented.

### POT 4109 Politics and Literature 6A LW (3) AS GIA
Critical examination of the connections between politics and literature.

### POT 4204 American Political Thought (3) AS GIA
Examines political writings in the U.S. and responses to critical periods in history, beginning with the Founding Fathers, and culminating in
psychological determinants of personality. Evaluation of constitutional, biosocial, and recent contributions and understanding contemporary political problems and solutions.

POT 4936 Selected Topics in Political Theory (3) AS GIA
Selected topics or thinkers in political theory.

PPE 4003 Personality (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. Methods and findings of personality theories and an evaluation of constitutional, biosocial, and psychological determinants of personality.

PSB 3444 Drugs and Behavior (3) AS PSY
This is a basic introduction to drugs and their effects on society and behavior. Specifically, drug regulations and laws will be covered as well as how drugs interact with the brain to alter consciousness.

PSB 3842 Sleep and Dreams (3) AM PSY
An overview of the psychological and physiological foundations of sleep and dreams. Disorders and disturbances of sleep and cultural perspectives on sleep and dreams.

PSB 4004C Physiological Psychology (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. Gross neural and physiological components of behavior. Structure and function of the central nervous system and theory of brain functions.

PSC 2515 Energy and Humanity NS CANP (3) AS PHY
Explores energy use and its environmental impacts, including climate change. Energy resources, including alternatives to fossil fuels, are discussed. Basic science concepts as well as contemporary technologies are covered.

PSY 2012 Introduction to Psychological Science SS CASB (3) AS PSY
This course is an introduction to psychology for majors and nonmajors. It presents psychological theory and methods in a survey of various areas of psychology including clinical, cognitive, developmental, health, industrial, social and biopsychology.

PSY 3017 Psychological Science II SS (3) AS PSY
PR: PSY 2012, psychology major or CI. Designed as an in-depth examination of the basic principles and concepts of psychological science. Extensive coverage will be given to the areas of learning, perception, physiological psychology, and cognition.

PSY 3204 Psychological Statistics 6A QM CAQR (3) AS PSY
PR: PSY 2012. Introduction to analyzing psychological data, in the context of behavioral research. Covers basic research design, descriptive statistics, analysis procedures, use of computer analysis packages, interpretation of outputs, and implications for research.

PSY 3213 Research Methods in Psychology (4) AS PSY
PR: PSY 2012 with a grade of C or better or CI. This course considers the logic of experimental design, concept of control and the analysis of experimentally obtained data. the laboratory section provides experience applying the concepts discussed in lecture. Two lectures plus two-hour lab.

PSY 4205 Experimental Design and Analysis (3) AS PSY
PR: PSY 3213 with grade of C or better or CI. Detailed coverage of those research designs and statistical techniques having the greatest utility for research problems in psychology. Emphasis on topics from analysis of variance.

PSY 4604 History and Systems of Psychology (3) AS PSY
PR: PSY 3213 with a grade of C or better or CI. The historical roots of modern psychological theories, investigation of the various schools of psychology such as behaviorism, Gestalt psychology, psychoanalysis, and phenomenological psychology.

PSY 4913 Directed Study (1-3) AS PSY
PR: PSY 3213. S/U only. A maximum of 3 credits of either PSY 4913 or PSY 4970 may count toward the major. The student plans and conducts an individual research project or program of directed readings under the supervision of a faculty member. S/U only.

PSY 4931 Selected Topics: Seminar (3) AS PSY
PR: PSY 3213 with a grade of C or better. Upper-level standing, psychology major and CI. Graduate-type seminar designed to provide the advanced undergraduate student with an in-depth understanding of a selected sub-area within psychology.

PSY 4932 Honors Seminar CPST (3) AS PSY
PR: PSY 3213 with a grade of C or better, admission to honors program in psychology and CI. A maximum of 3 credits of either PSY 4913 or PSY 4970 may count toward the major. The student, under supervision of a faculty member, will complete a thesis project.

PSY 4933 Advanced Topics in Applied Behavior Analysis (4) AS PSY
PR: EXP 4404 and CLP 4414. Restricted to Psychology majors admitted to the Concentration in Applied Behavioral Analysis. Advanced seminar in the effective and ethical application of behavior analysis to human problems. Includes theoretical and conceptual issues; assessment and treatment procedures; legal, ethical and socio-cultural issues.

PSY 4938 Pro Seminar (3) AM PSY
PR: PSY 3213. Senior standing. Area I and Area II requirements complete. Students should take this course close to the end of the psychology program. This course is intended to provide advanced undergraduates with a "capstone" experience in psychology and provides the opportunity to synthesize and apply learning from other courses as they explore a specific topic, which will vary.

PSY 4970 Honors Thesis (1-3) AS PSY
PR: PSY 3213 with a grade of C or better, admission to honors program in psychology and CI. A maximum of 3 credits of either PSY 4913 or PSY
PUR 4401 Public Relations: Issues, Practices and Problems (3) AS COM
PR: PUR 3000. The theory of public relations practice and its application in the real world. The role of the public relations practitioner in business, government, and social institutions, and the nature of specialized areas of the practice. Identification of public issues, analysis of potential impact on organizations and development of strategies to deal with them successfully and responsibly.

Communication techniques and trends.

PUR 4700 Public Relations Practicum (1) AS COM
PR: Senior standing and CI. For public relations sequence majors. S/U. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

PUR 4801 Advanced Public Relations (3) AS COM
PR: PUR 3500, PUR 4100 and PUR 4401. As final course in Public Relations sequence, it involves intensive study of counseling and problem-solving techniques used in professional practice. Analysis of case studies and preparation of complete Public Relations program. Extensive reading in the literature of contemporary practice.

PUR 5505 Introduction to Strategic Communication Theory and Practice (3) AS COM
The course is designed to act as a "bridge" between undergraduate and graduate public relations and advertising education, and between professional communication practices and strategic communication scholarship.

QMB 2100 Business and Economic Statistics I 6A
QM CAQR (3) BA QMB
PR: MAC 1105. Data description; exploratory data analysis; introduction to probability; binomial and normal distributions; sampling distributions; estimation with confidence intervals; tests of hypotheses; control charts for quality improvement.

QMB 3200 Business and Economic Statistics II (3) BA QMB
PR: QMB 2100, QMB 3200, ISM 3431. Focuses on business decision making; extensive computer-based methods and analysis employed. Restricted to Business Honors students, not repeatable.

QMB 3701 Computational Methods in Business (3) BA QMB
PR: QMB 3150. Introduces Algorithms and Computational Thinking, Linear Programming, Data Analytics, and Game theory used in business decision making; extensive computer-based methods and analysis employed. Restricted to Business Honors students, not repeatable.

QMB 4250 Business Analytics (3) BM QMB
PR: QMB 3200. This course covers the concepts and methods in the field of business analytics. It involves the analysis of large quantities of data found in businesses, for supporting business decisions. Data Mining and multivariate statistical techniques are covered.

QMB 4650 Lean Operations and Six Sigma (3) BM QMB
PR: QMB 2100, QMB 3200, ISM 3431. Focuses on concepts and principles of Lean Six Sigma, methods/tools/techniques utilized to optimize operational efficiencies, designing and improving product/process/service quality as applicable for manufacturing, service, and healthcare needs.
organizations.

QMB 4700 Business Decision Modeling (3) BM QMB
PR: QMB 2100, ISM 3431. Formulate and solve optimization and simulation models to assist in business decision-making on a variety of manufacturing, healthcare, and service systems problems such as: scheduling, routing, logistics, financials, and manpower planning.


RCS 4033 Overview of Rehab & MH Counseling Professions (3) BC REH PR: Sophomore standing or above. This course introduces students to the human services and multiple counseling professions, including, rehabilitation and mental health counseling, career/vocational counseling, forensic counseling, behavioral health and marriage and family therapy.

RCS 4931 Selected Topics in Counseling Professions (3) BC REH Provides an overview of counseling professions including current issues, standards of practice, and future trends. Will cover legal and ethical and professional issues.

RCS 5035 Rehabilitation Counseling: Concepts and Applications (3) BC REH PR: CC. Introduction to the profession of Rehabilitation Counseling and current issues in the field. Coverage includes rehabilitation history, legislation, case management and related services for Americans with disabilities.

RCS 5080 Medical Aspects of Disability (3) BC REH PR: RCS 5780 or CP. A survey of medical conditions and disabilities encountered by rehabilitation and mental health counselors. Examines the relationship of client handicaps, physical and mental, to rehabilitation and mental health programming.


RCS 5780 Legal, Ethical, Professional Standards and Issues in Counseling (3) BC REH PR: CC. An overview of all aspects of professional functioning including history, roles, organizational structures, ethics, standards and credentialing. Contemporary and developing issues in the field of professional counseling will also be addressed.

RCS 5905 Directed Studies (1-4) BC REH PR: Cl. Supervised rehabilitation studies under the direction of a faculty member.

REA 1205 Advanced Reading (3) US RLS This course focuses on a broad array of reading strategies to help students enhance comprehension skills as well as develop the fundamentals of critical analysis through the application of a strategic-reflective reading model.

REA 1305 Reading Lab (1-3) US RLS The focus is on the development of a systematic approach for improving reading comprehension, rate, and expanding vocabulary as well as adjusting rate and technique to adapt to a variety of materials and purposes. Open to all students.

REA 1605 Advanced Learning Systems (2) US RLS To explore the most recent advances in learning theory systems and then learn to apply that knowledge to understanding individual learning preferences, analyzing task demands, and intentionally selecting effective strategies for each learning challenge.

REA 2105 Critical Reading and Writing 6A (3) US RLS This course helps students develop the fundamentals of reflective and critical reading and on effective analytical writing utilizing multiple sources from various disciplines. The course meets the criteria for Gordon Rule writing requirements.

REA 2505 Vocabulary (3) AS ENG A practical course in rapid vocabulary improvement for students in all areas. Stress is on words in context. Will not count toward the English major.

REA 2604 Strategic Learning (1) US RLS For students in academic difficulty, this course introduces students to advanced learning system used to understand individual learning preferences, analyze task demands, and then intentionally select effective strategies for each learning challenge.

REA 2930 Selected Topics (1-4) US RLS Topics will vary to meet the needs of students. Will not be counted toward the English major.

RED 4310 Reading and Learning to Read (3) ED EDE PR: Admission to College of Education. This course will prepare pre-service teachers to understand the foundations of reading and the inherent learning principles to produce successful readers. The course focuses on appropriate instructional strategies to enhance reading development and reading across the curriculum.

RED 4312 Emergent Literacy Strategies and Assessment (3) ED EDR The purpose of this course is to create an understanding of developmentally appropriate, research-based theories and practices that support young children's emergent literacy and language learning.

RED 4335 Teaching Reading in Secondary English Curriculum (3) ED EDI Analysis of the reading process; introduction to diagnosis of reading abilities; reading and study skill strategies to increase student achievement in reading.

RED 4348 Literacy Development (3) EP EDE PR: BXE Majors only. CR: EDG 3943. This course
for preservice teachers focuses on foundations of reading and learning principles that lead to successful readers, including ESOL and ESE students. Instructional strategies and materials for early literacy development are introduced.

**RED 4511 Linking Literacy Assessment to Instruction (3) ED EDR**
PR: RED 4310. This course will prepare pre-service teachers to use multiple assessment measures to assess and diagnose students’ strengths and needs in literacy learning. Based on individual student profiles, teachers will design instruction to enhance literacy development.

**RED 4724 Intermediate Literacy Strategies and Assessment I (3) ED EDR**
PR: RED 4312. The purpose of this course is to create an understanding of developmentally appropriate, research-based theories and practices that support children’s literacy learning in the intermediate grade levels.

**REE 3043 Real Estate Decision Making (3) BA FIN**
PR: FIN 3403. Acquaints students with the range of information necessary for a primary understanding of real estate markets. Emphasis will be placed on the role of religions in shaping human values which can either create or resolve social conflicts, and the impact these values can have on issues of race, ethnicity and religious diversity in a multicultural world.

**REL 3040 Introduction to Religious Studies (3) AS REL**
This course introduces students to the academic study of religion. Religious thought and behavior are examined from a variety of methodological perspectives. Restricted to majors and minors. Required for the major and the minor in Religious Studies.

**REL 3043 Introduction to Major Religious Texts (3) AS REL**
The course provides an introduction to the study of some of the foundational texts of selected religious traditions by focusing on reading and interpretative strategies in order to understand the central beliefs and practices presented in these texts.

**REL 3101 Religion and Popular Culture SS HP (3) AS REL**
An exploration and analysis of the relationship between religion and popular culture, which will include inquiry into the definition and meaning of both religion and popular culture, the impact of secularization on traditional religious systems, and the widely diverse expressions of religion in contemporary popular culture.

**REL 3111 The Religious Quest in Contemporary Films 6A SS HP CAHU (3) AS REL**
This course uses contemporary films such as Gandhi, Malcolm X, The Long Walk Home, The Chosen, and Grand Canyon to explore the personal and social aspects of religion in modern secular societies, pinpointing issues of racism, sexism, liberation, etc.

**REL 3114 Comedy, Tragedy, and Religion 6A MW (3) AS REL**
Examines the visions of life in comedy and tragedy, and relates both to Judaism, Christianity, and Zen Buddhism.

**REL 3116 Religion and Contemporary American Holidays HP SS (3) AS REL**
Introduces students to the academic study of religion through an exploration of issues and questions related to the character and function of holidays in contemporary America. Open to majors and non-majors.

**REL 3117 Religion and Contemporary American Sports HP SS (3) AS REL**
This course explores the function of sports in America. It covers the history of sports; the status of American sports; and sports as religious events. The course is open to majors and nonmajors and is not repeatable for credit.

**REL 3120 Religion in America (3) AS REL**
To examine the movement from state church to pluralism in American religious institutions, the religious results of non-Protestant immigration; the Jewish factor; the effect of home missions and
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REL 3131 New Religions in America CAGC HHCP (3) AS REL
This course entitled New Religions in America is designed to give students an overview of the rich religious history of America particularly in regard to the unique cultivation of new religious movements in America spanning from 1850 – the present.

REL 3132 Witchcraft and Paganism in America (3) AS REL
A study of contemporary witchcraft and paganism, including theories, methods, history, myths and symbols, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.

REL 3140 Religion, Culture, and Society (3) AS REL
Introductory scholarly survey of religion in its complex relationship to culture and society, including definitions and theories of religion, research methods, becoming religious, social organization, and interconnections with other social institutions. Open to non majors.

REL 3145 In Search of the Goddess AP HP SS (3) AS REL
This course explores Goddess religion/sacred Feminine, from prehistory, to the pagan Near East and Mediterranean, Western monotheistic religions, pluralistic religions of the East, and revivals of Goddess spirituality in contemporary Europe/N. America.

REL 3146 Women and Religion 6A (3) AS REL
Analysis of the status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues of feminist theology, and the controversies surrounding them.

REL 3170 Religion, Ethics and Society Through Film 6A SS HP (3) AS REL
An ethical analysis of contemporary social issues through contemporary films such as Wall Street and Crimes and Misdemeanors, drawing on religious narrative traditions from Eastern and Western cultures which have contributed to the development of an ethic of human dignity, human rights and human liberation after Auschwitz and Hiroshima.

REL 3191 Life After Death MW (3) AS REL
An exploration of ideas about life after death and its relations to this life in Judaism, Christianity, Islam, Hinduism, and Buddhism.

REL 3280 Biblical Archaeology MW (3) AS REL
An in depth examination of the archaeological data relating to the background and content of the Bible, including ancient customs, Biblical sites and cities, Biblical history, and material culture of the Biblical period. Special attention will also be given to excavation methods and interpretation of archaeological evidence.

REL 3303 Comparative Religion: Judaism and Islam MW (3) AS REL
This course is framed within the academic study of religion, and it does not concern itself with contemporary political difference in the Middle East. It treats as Islam the normative statements of the Quaran and related traditions, and as Judaism the authoritative statements of the Torah, oral and written.

REL 3308 World Religions 6A HP SS (3) AS REL
World Religions gives students an overview of the major religions of the world from their origins through the modern period. Special attention is given to the analysis of myths, rituals, history, and other features of the religions.

REL 3318 Introduction to Chinese Religion AP HP SS (3) AS REL
The course is for majors and nonmajors, and may not be repeated for credit. The course introduces the history and present state of the religious thoughts and practices in mainland China and the geographical areas in which the Chinese language is spoken.

REL 3330 Religions of South Asia AP (3) AS REL
All religions of the world came to India and all became Indian. What is this "Indianness" which stems from Hinduism, Buddhism, Jainism and Sikhism, but extended itself to include Judaism, Christianity, Islam, Zoroastrianism and Baha’i. Readings from classical texts and modern literature.

REL 3335 Gods and Goddesses of India (3) AS REL
This course explores the ways Hindus see, speak about, and encounter the Divine through an examination of the multitude of stories about the gods and goddesses and their various physical manifestations in the sacred geography of India.

REL 3340 Buddhism Truths and Paths (3) AS REL
This course provides an historical survey of Buddhist religion from its inception through today by focusing on the life and teachings of the historical Buddha, doctrinal development, the various denominations, and canon formation.

REL 3363 Introduction to Islam HP AP (3) AS REL
This course introduces the basic elements of Islamic belief and practice, placing the rise of Islam in its historical context in the Middle East, and stressing issues of diversity (including ethnicity and gender).

REL 3367 Islam in the Modern World 6A HP AP (3) AS REL
Examines the major developments in Islamic thought since the 13th century, with emphasis on the 19th and 20th century Islamic resurgence. Issues of diversity, gender, and social values will be stressed.

REL 3375 Issues in Caribbean Religions MW CPST (3) AS REL
The course examines major social, political, economic, and cultural issues in Caribbean religions mainly in Jamaica, Cuba, Haiti, and Trinidad. Issues reflected in African diasporan religions and encounters with Western and Eastern ones are studied.

REL 3380 Native American Religions (3) AS REL
Introduction to and survey of Native American Religions. A variety of multiplicity of perspectives, including anthropological, historical, social psychological, sociological, and philosophical.

REL 3420 Contemporary Religious Thought (3) AS REL
An examination of the central ideas of recent religious thinkers; such as Gandhi, Martin Luther King, Jr., Elie Wiesel, Thich Nhat Hanh, Dorothy Day, Dorothee Soelle, Howard Thurman, Thomas Merton and others.

REL 3444 Womanist Vision in Religion MW (3) AS REL
This course examines the works of Black Womanist writers in religion for their contributions to and insights into the phenomena of religion in America and the world.

REL 3465 Religion and the Meaning of Life 6A MW (3) AS REL
What is the meaning of life? An exploration of answers to this question in Eastern and Western religions, and in humanistic philosophies of life.

REL 3500 History of Christianity 6A HP (3) AS REL
Historical development of Western Christianity, its ideas and institutions, from the first century to the rise of religious modernism in the 19th century.

REL 3505 Introduction to Christianity (3) AS REL
Introduction to fundamental elements of Christianity, including: foundational texts and core beliefs; the background and historical development of Christian thought; the expression of the religion throughout culture; Christianity as a global religion.

REL 3561 Roman Catholicism 6A MW (3) AS REL
An examination of the history, doctrine, and ethics of the Roman Catholic Church.

REL 3602 Classics of Judaism 6A MW (3) AS REL
PR: One course in Religious Studies. How to read the principal documents of Judaism beyond the Hebrew Bible, including the Mishnah, Talmud, Midrash, and classics of philosophy, mysticism, and theology through the modern period.

REL 3607 Introduction to Judaism 6A SS HP AP (3) AS REL
An introduction to Judaism: its religious tenets; its codes of ethics; its rites and customs. This course is intended as a description of what it means to be a Jew.

REL 3611 History of Judaism (3) AS REL
A study of the evolution of the religion of ancient Israel from the Second Temple period to the end of the second century C.E., seen against the background of its historical, geographical, political, social and spiritual setting.

REL 3613 Modern Judaism 6A MW LW (3) AS REL
A study of modern Jewish life and thought in the West, including the study of beliefs, practices, institutions, major thinkers, and intellectual trends.

REL 3801 History of Writing (2) AS REL
Study, in reasonable detail, of the history and evolution of writing within its societal context. We will stress the development of writing in Mesopotamia, Egypt, and the Mediterranean World, looking at the transition from oral to written literature and its impact on religion.

REL 3900 Directed Readings (1-4) AS REL
PR: CI. Individual guidance in concentrated reading on a selected topic.

REL 3936 Selected Topics (1-4) AS REL
Course contents depend on students' needs.

REL 4108 Religion and Food (3) AS REL
Course applies categories in the academic study of religion (symbol, ritual, the divine, the sacred/profane, ethics, etc.) to food and religion. Explores how religion relates to food—in its production, distribution and consumption dimensions.

REL 4113 The Hero and Religion 6A MW (3) AS REL
A study of the way in which embedded religious models help to fashion the representation of an heroic protagonist. The focus of the course will be on the relationship between the hero and the “other,” as differentiated by race, gender, ethnicity, or merely inner being.

REL 4133 Mormonism in America MW (3) AS REL
A study of Mormonism in America as an example of a new religion. Includes the study of history, myths and symbols, texts, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.

REL 4171 Contemporary Christian Ethics 6A MW (3) AS REL
PR: Jr. standing or CI. A survey of representative approaches to contemporary Christian ethics and their application to a number of ethical issues peculiar to personal and social life in contemporary society, with an emphasis on issues of race and gender and of violence and non-violence.

REL 4177 Comparative Religious Ethics 6A MW LW (3) AS REL
A comparative study of religious ethics emphasizing how 20th century social activists, such as Ghandi and M. L. King Jr. and eco-feminists such as Rosemary Ruether and Joanna Macy, have drawn upon and transformed traditional religious stories and spiritual practices in order to create a cross-cultural and inter-religious ethic for a multi-cultural world.

REL 4188 Religion and Ecology Seminar (3) AS REL
Course applies categories in the academic study of religion (symbol, myth, ethics, community, ultimate power, and so on) to ecology. Considers how religion and ecology relate and have related historically.

REL 4193 Comparative Mysticism (3) AS REL
A course designed to acquaint the student with the nature of mystical experience, and some of the varieties of mystical experience recorded in the writings of the mystics. East and West.

REL 4213 Early Jewish Literature (3) AS REL
This course undertakes close readings of a wide range of early Jewish texts to better understand the
role of scripture in the ancient world and to gain insight into the cultural and religious world from which rabbinic Judaism and Christianity emerged.

REL 4215 Ancient Israel and the Development of the Hebrew Bible 6A HP AP MW LW (3) AS REL
An exploration of the formation and composition of the Hebrew Bible in light of the religious, social, political, and historical developments in antiquity.

REL 4216 Who Wrote the Bible (Genesis-Kings) 6A MW LW (3) AS REL
A critical examination of Genesis through 2 Kings. This course focuses on the history of the formation of the text and the development of the religious traditions represented therein. Special attention will be paid to Israelite Law, Covenant Theology, and the history of the religion(s) of the Children of Israel in their Ancient Near Eastern context.

REL 4245 New Testament I: Gospels, Acts (3) AS REL
An exploration of the Gospels and Acts, including their backgrounds in Judaism and Greco-Roman religion, literary and form criticism, historical Jesus research, and the social history of earliest Christianity.

REL 4250 Jesus’ Life and Teachings (3) AS REL
An examination of the various historical studies made in the quest of identifying Jesus as an historical figure. The concern is to make a reasonable assessment of who Jesus was and what he was saying to the Jews in Palestine at the beginning of the common era.

REL 4252 New Testament II: Pauline Letters (3) AS REL

REL 4291 Women and the Bible 6A HP AP MW LW (3) AS REL
How the redactors of Genesis through 2 Kings viewed women; the role women played in the society of the time in which they are portrayed and in that of the redactors; and, an attempt to find the “women's voices,” however muted, within the biblical text.

REL 4333 Hindu Texts and Contexts (3) AS REL
PR: REL 3330 or similar course focusing on Hinduism; consult instructor. An in-depth examination of the classical texts of the Hindu Tradition. We will examine religious, philosophical, ethical, ritual, and mythological themes presented in these texts in order to gain a deeper understanding to the larger tradition we call "Hinduism".

REL 4499 Classics of Christian Thought 6A WRIN (3) AS REL
This course is designed to introduce students to some of the “greatest hits” of Christian thought from the fourth century through the nineteenth. Students will be exposed to formative works from the patristic, medieval, Reformation and modern era.

REL 4910 Undergraduate Research (1-4) AS REL
PR: Junior standing and CI. Individual investigations with faculty supervision.

REL 4911 Undergraduate Research (1-4) AS REL
PR: Junior standing and CI. Individual investigations with faculty supervision.

REL 4930 Selected Topics (3) AS REL
Course contents depend on student demand and instructor's interest and may range over the whole field of Ancient Religions. Offerings on a semi-regular basis include the Bible as History 3.

REL 4931 Seminar in Religion WRIN (3) AS REL
PR: Majors and minors only or CI A course required for Religious Studies majors and minors, whose prior religious studies have prepared them for a cooperative creative and/or research effort in the area of religion.

REL 4936 Selected Topics (1-4) AS REL
PR: Junior standing. Individual investigations with faculty supervision.

REL 4937 Selected Topics: Fall Honors Seminar (3) AS REL
PR: Acceptance into the Religious Studies Honors Program. The course content will depend upon student demand and instructor's interest.

REL 4938 Selected Topics: Spring Honors Seminar (2) AS REL
PR: Acceptance into the Religious Studies Honors Program. The course content will depend upon student demand and instructor's interest.

REL 4939 The Development of Religious Studies (3) AS REL
Course designed for senior majors and minors in religious studies. Discussion of key figures and methodological advances in the development of the field from the 18th century to present, with readings of classics in the development.

RTV 2100 Writing For Radio and TV (3) AS COM
PR: CRW 2100 or ENC 3310 and RTV 3001. The art and practice of script planning and writing for radio and television.

RTV 3001 Introduction to Telecommunications (3) AS COM
PR: MMC 2100 and MMC 3602. A survey of the organization, structure, and function of the broadcasting industry.

RTV 3001 Broadcast News (3) AS COM
PR: MMC 2100 and MMC 3602. Methods in gathering, writing, and editing newscasts for radio and television.

RTV 3941 Radio Practicum (1) AS COM
PR: RTV 3001 and CI. For telecommunication sequence majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

RTV 4220 TV Production and Direction (3) AS COM
PR: RTV 3001 and RTV 3301. A basic course in the techniques of producing and directing TV programs.
COURSE DESCRIPTIONS

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Restricted to majors only.

RTV 4304 TV News (3) AS COM
PR: RTV 4320. Advanced television reporting, integrating broadcast news writing, ENG production and television performance.

RTV 4320 Electronic Field Production (3) AS COM
PR: RTV 3001 and RTV 3301. Advanced producing, scripting, lighting, camera, and editing for video and news production. Introduction to computer editing and graphics.

RTV 4500 Telecommunications Programming and Management (3) AS COM
PR: RTV 3001. Program and management concepts, resources, costs, selection, and scheduling. Analysis of programming and management in terms of structures, appeals and strengths.

RTV 4942 TV Practicum (1) AS COM
PR: RTV 4220 and Cl. For telecommunications sequence majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

RTV 5416 Race, Gender, Class issues in Media (3)
AP JMS
Survey of how those outside the American mainstream, whether by race, ethnicity, gender or socio-economic class are portrayed in various forms of media. Emphasis on news media, with a secondary focus on entertainment media.

RUS 1120 Beginning Russian I (4) AS WLE
CR: RUS 1120L. The first course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

RUS 1120L Beginning Russian I Laboratory (1) AS WLE
CR: RUS 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

RUS 1121 Beginning Russian II (4) AS WLE
PR: RUS 1120 or Cl. CR: RUS 1121L. The second course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

RUS 1121L Beginning Russian II Laboratory (1) AS WLE
CR: RUS 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.

RUS 2220 Russian III (4) AS WLE
PR: First year Russian or equivalent. Review and development of basic skills in conversation, composition, and reading.

RUS 2221 Russian IV (4) AS WLE
PR: RUS 2220 or equivalent. Review and development of basic skills in conversation, composition, and reading.

RUS 2270 Overseas Study (1-6) AS WLE
Intensive study of the Russian language in Russia involving at least 20 hours per week of classroom instruction and cultural excursions conducted in Russian around Moscow and other parts of Russia.

RUS 3240 Conversation I (4) AS WLE
PR: Second year Russian or equivalent. Development of basic conversational skills.

RUS 3470 Overseas Study (1-6) AS WLE
Must be enrolled in the USF Summer Study in Moscow program. Two years Russian required. Intensive Russian at Moscow Linguistic University with excursions in Moscow and Russia. Students from other institutions eligible.

RUS 3500 Russian Civilization 6A MW (3) AS WLE
A survey of the cultural history of Russia.

RUS 4241 Conversation II (4) AS WLE
PR: Previous course in series or equivalent. Development of conversational skills.

RUS 4900 Selected Topics (1-3) AS WLE
Study of an author, movement or theme.

RUS 4905 Directed Study (1-3) AS WLE
Departmental approval required.

RUT 3110 Nineteenth Century Russian Literature in English 6A MW WRIN (3) AS WLE

RUT 3111 Twentieth-Century Russian Literature in English 6A MW CPST WRIN (3) AS WLE
Survey of the major authors of 20th Century Russian literature in English. Major works of Babel, Bulgakov, Olesha, Pasternak, Solzhenitsyn, and Zamyatin.

SCE 3941 Practicum I: Middle School Science Education (1-3) ED EDI
PR: Admission to the College of Education and Middle School Science Education Program. 1. The candidate will spend six hours a week in an assigned school, becoming acquainted with the middle grades classroom, and providing supervised one-on-one, small group and whole group instruction and will attend university seminars.

SCE 3942 Practicum II: Middle School Science Education (1-3) ED EDI
PR: Admission to the College of Education and Middle School Science Program, and successful completion Semester I with no grades lower than a C. Candidates will spend nine hours a week in an assigned school, in a grade level or subject area other than the one completed in Practicum I, providing supervised one-on-one, small group, and whole group instruction, and will attend university seminars.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCE 4305</td>
<td>Communication Skills in the Science Classroom (3) ED EDI</td>
<td>Reading and communication skills important in understanding scientific and science education literature and communicating findings to others.</td>
</tr>
<tr>
<td>SCE 4310</td>
<td>Teaching Elementary School Science (3) ED EDE</td>
<td>PR: Admission to College of Education and completion of General Distribution Requirements in the Natural Science area. Techniques and materials for teaching science in the elementary school.</td>
</tr>
<tr>
<td>SCE 4313</td>
<td>Science for all Students (3) EP EDI</td>
<td>Designed to equip students with inquiry- and standards-based techniques and materials for teaching elementary school-aged children science. Includes strategies and resources for teaching English language learners and students with exceptionalities.</td>
</tr>
<tr>
<td>SCE 4320</td>
<td>Teaching Methods in Middle Grade Science (3) ED EDI</td>
<td>PR: Completion of 25 semester hours of Science or CC. Not designed for high school certification purposes. Survey techniques and materials unique to science, grades 5-9.</td>
</tr>
<tr>
<td>SCE 4330</td>
<td>Methods of Secondary Science Education (3) ED EDI</td>
<td>PR: Admission to the College of Education. Middle School Science Program students must successfully complete Semester I with no grades lower than a C. The purpose of this course for science education majors is to develop pedagogical content knowledge as it pertains to the teaching and learning of science in grades 6-12.</td>
</tr>
<tr>
<td>SCE 4863</td>
<td>Science, Technology, Society Interaction 6A MW (3) ED EDI</td>
<td>Achieve an historical and philosophical understanding of (1) the nature of the scientific enterprise: interaction of science, technology, and society (STS), (2) how to teach STS including the use of computers and related technologies, and (3) intricacies of sample STS topics.</td>
</tr>
<tr>
<td>SCE 4936</td>
<td>Senior Seminar in Science Education CPST (3) ED EDI</td>
<td>PR: Senior standing; CR: SCE 4940. Synthesis of teacher candidate's courses in complete college program.</td>
</tr>
<tr>
<td>SCE 4940</td>
<td>Internship: Science Education (1-12) ED EDI</td>
<td>CR: SCE 4936. One full semester of internship in a public or private school.</td>
</tr>
<tr>
<td>SCE 4941</td>
<td>Internship I: Middle School Science Education (1-12) ED EDI</td>
<td>PR: Admission to the College of Education and Middle School Science Program, successful completion Semesters I, II, and Summer Session with C or better. 1. Candidates will spend each day of the semester in an assigned school implementing acquired knowledge from Practicum I and II, with increased responsibility for planning instruction and assessing student learning, and will attend internship seminars.</td>
</tr>
<tr>
<td>SCE 4942</td>
<td>Internship II: Middle School Science Education (1-12) ED EDI</td>
<td>PR: Admission to the College of Education and Middle School Science Program, successful completion Semesters I, II, and Summer Session with C or better. Internship II is a continuation of Internship I. Candidates will spend each day of the semester co-teaching in the same school, with responsibility for planning instruction and assessing impact on student learning, and will attend internship seminars.</td>
</tr>
<tr>
<td>SCE 4945</td>
<td>Practicum in Secondary Science Education (3) ED EDI</td>
<td>CR: SCE 4320. This practicum provides students majoring in biology, chemistry or physics education with structured field experiences in science classrooms at the secondary school level. Restricted to majors and non-repeatable for credit.</td>
</tr>
<tr>
<td>SCE 5325</td>
<td>Methods of Middle Grades Science Education (3) ED EDI</td>
<td>PR: 18 sem hrs in science, meeting FL content standards for mid grades general science. Prepare 5-9 sci teachers to tch sci skills, content, interrelationship, applications of sci as a human endeavor; nature of sci; instructional methods; nature scientific inquiry; development of sci process skills; integration of subj areas; &amp; assessment.</td>
</tr>
<tr>
<td>SCE 5337</td>
<td>Methods of Secondary Science Education (3) ED EDI</td>
<td>Course concentrates on goals, subject matter teaching strategies for high school curricula; assessment and using data to improve student achievement; and development pedagogical content knowledge as it pertains to the teaching and learning of science.</td>
</tr>
<tr>
<td>SCE 5564</td>
<td>Reading and Communication in Science Education (3) ED EDI</td>
<td>This course prepares secondary science teachers to teach literacy practices in science. It includes methods for selecting appropriate reading and language approaches. Communication in science and functional aspects of scientific literacy are examined.</td>
</tr>
<tr>
<td>SCE 5937</td>
<td>Selected Topics in Science Education (1-4) ED EDI</td>
<td>This course will prepare student athletes for transition to life after college. Students will identify career options based on interests, values and skills, research occupations, make effective decisions &amp; learn job search techniques.</td>
</tr>
<tr>
<td>SDS 3341</td>
<td>Career Development for Student Athletes (3) ED EDF</td>
<td>This course will prepare student athletes for transition to life after college. Students will identify career options based on interests, values and skills, research occupations, make effective decisions &amp; learn job search techniques.</td>
</tr>
<tr>
<td>SLS 1101</td>
<td>The University Experience (1-3) US DEA</td>
<td>PR: Freshman only. An extended introduction to USF. Topics include purposes of higher education, structure and function of USF, career planning, selecting a major, study skills, managing time, academic advising, computer resources, and decision-making.</td>
</tr>
</tbody>
</table>
## COURSE DESCRIPTIONS

**SLS 1107 Foundations for University Success (1) AM STL**
This course is designed to develop skills required for success in university courses & campus life such as: -effective use of campus resources -community engagement -critical thinking & writing skills - academic & career planning.

**SLS 2401 Career Development for Today (1-3) US DEA**
Students will study vocational choice theories and participate in career decision processes. Development of self-awareness and knowledge of career opportunities and requirements necessary for decision making. Available to lower level majors or non-majors.

**SLS 2901 Academic Foundations Seminar (1-3) US DEA**
This course offers an introduction to students' first years at USF that is designed to prepare them for a successful college experience. The course provides the necessary knowledge and experiences for students to be successful personally and academically.

**SLS 3407 Strategies for Veteran Success (3) US DEA**
PR: Must be a veteran of the United States Armed forces with a minimum of 30 credits toward your degree. This course facilitates the transition from military service to college with the goal of promoting student Veteran retention, graduation and job placement. It seeks to assist military veteran students in their integration into life outside the military.

**SOP 3742 Psychology of Women SS (3) AS WST**
An examination of theories of female personality in historical perspective. Current research on sex differences, socialization, sexuality, psychology of reproduction. Emerging roles of women as related to social change and developmental tasks of the life cycle.

**SOP 4004 Social Psychology (3) AS PSY**
PR: PSY 3213 with a grade of C or better or CI. Survey of methods, empirical findings, and theoretical interpretations in the study of an individual's behavior as it is affected by others.

**SOP 4330 Social Psychology of HIV/AIDS (3) AS PSY**
PR: PSY 2012, PSY 3017, PSY 3213 Students study social psychology theory and research while working at an AIDS service organization. They use the research as a framework for understanding, and developing solutions to, problems confronting the organization's staff and clients.

**SOP 4450 Psychology of Religion (3) AP PSY**
PR: [PSY2012,UG,C] AND [PSY3204,UG,C]. The purpose of this course is to introduce students to the empirical study of the psychology of religion and spirituality. This course will also focus on the origin of this field of study, including the pioneering work of William James.

**SOP 4514 The Holocaust, Social Prejudice, and Morality (3) AS PSY**
PR: PSY 2012. Examines the Holocaust from social, psychological, and communication/language perspectives. Reviews root causes of prejudice, the manifestations of hatred in language, relationships, and the ultimate impacts on victims and survivors and rescuers.

**SOP 4702 Psychology of Gender (3) AS PSY**
This course is designed to introduce students to the psychological study of gender, from developmental, biological, social, and cultural perspectives.

**SOP 4714C Environmental Psychology (3) AS PSY**
PR: PSY 3213 with a grade of C or better or CI. Explores the influences of environment on behavior. Topics considered include include crowding, privacy, territorial behavior, environmental design, and pollution effects. Designed for both psychology majors and non-majors.

**SOP 4723 Cross-Cultural Psychology (3) AP PSY**
PR: [PSY2012,UG,C] AND [PSY3204,UG,C]. Cross-cultural psychology focuses on understanding culture and psychology, emphasizing cross-cultural research methodology and critical thinking. Cross-cultural psychology underscores the connections between culture, emotions, thoughts, and behaviors.

**SOP 4744 Women's Mental Health (3) AP PSY**
PR: (PSY 2012; UG; C) OR (PSY 3204; UG; C) OR (PSY 3213; UG; C) This course will stimulate students' critical engagement of research related to the psychology of women. This course will also enable students to understand women's experiences resulting from biological and social/cultural factors.

**SOP 4751 Psychology Applied to Law (3) AM PSY**
PR: PSY 3213. Course is designed to explore the application of psychological research and theory to the problems faced by the Legal System. Students will be given a broad overview of the relevant topics, problems, and methodologies in the field of Psychology and Law.

**SOP 4777 Psychology of Human Sexuality (3) AM PSY**
PR: PSY 2012, PSY 3204, STA 2122, and a General Biology course. This course is designed to extend students' understanding of psychology to the diverse nature and construct of human sexuality, sexual dysfunction, identity, and culture, focusing upon psychological factors. The course approaches this topic from a multidimensional perspective.

**SOW 3101 Human Behavior and the Social Environment I (4) BC SOK**
PR: All provisional major courses. Restricted to full Social Work majors, others by School permission. An integrating human behavior-social environment course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with individuals, and families.
SOW 3102 Human Behavior And The Social Environment II (3) BC SOK
PR: SOW 3101, SOW 4341, SOW 4522. Restricted to Full Social Work majors, others by School permission. An integrating course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with families, groups, organizations and communities.

SOW 3203 Introduction to Social Work (3) BC SOK
An introductory course tracing the development of social work as a profession including an examination of the knowledge, skill and attitudinal base of the profession and professional roles and functions.

SOW 3210 The American Social Welfare System SS (3) BC SOK
A general education introductory course which provides students with a framework for understanding the historical development of American social welfare, its value base, and its response to minorities, women, children, the elderly, and the disabled.

SOW 3401 Research and Statistics For Social Work (3) BC SOK
PR: SOW 3101, SOW 4343, SOW 4522. Restricted to Full Social Work majors, others by School permission. The purpose of this course is two-fold: to familiarize the student with research as it is practiced in the profession of Social Work; and to equip the student with those theoretical understandings necessary to be a critical consumer of social work research.

SOW 4233 Social Welfare: Policy & Program (3) BC SOK
PR: All provisional major courses, SOW 3101, SOW 3401, SOW 4522, SOW 3102, SOW 4343. CR: SOW 4510, SOW 4510L. Restricted to full Social Work majors, others by School permission. An advanced policy course taking an analytical approach to contemporary social welfare policy issues and current social welfare programs.

SOW 4341 Multi-Methods of Social Work Practice I: Micro-System Intervention (5) BC SOK
PR or CR: SOW 3101; SOW 4522. All provisional major courses. Restricted to Full Social Work majors; others by School permission. First practice course emphasizing development of skills and interventive methods with individuals, families and small groups. Course includes both didactic and experiential learning components.

SOW 4343 Multi-Methods of Social Work Practice II: Macro-System Intervention (5) BC SOK
PR: All provisional major courses, SOW 3101, SOW 4522; SOW 4341; must be taken as PR. CR: SOW 3401, and SOW 3102. Restricted to Full Social Work majors, others by School permission. Second practice course emphasizing intervention at the community and organizational level. Builds upon theoretical and practical content of SOW 4341. Course includes both didactic and experiential learning components.

SOW 4510 Integrative Seminar (9) BC SOK
PR: SOW 3210, SOW 3301, SOW 3101, SOW 3102, SOW 4341, SOW 4343, SOW 4522. Restricted to full Social Work majors in senior year. The field seminar course is designed to offer a structured environment in which to integrate academic coursework with a structured field placement. Restricted to majors, repeatable for full credit.

SOW 4522 Multicultural America in a Global Society (3) BC SOK
PR: All provisional major courses. This course is an introduction to the study of diverse cultures, abilities, and norms which comprise our global society. The content centers on the diverse client systems that practitioners will interface with as change agents and advocates.

SOW 4900 Directed Readings (1-9) BC SOK
PR: Completion of four social work courses including SOW 3401, upper level standing, and School permission. Content dependent upon student interest and ability. A contract will be jointly developed by student and instructor specifying nature of work to be completed.

SOW 4910 Directed Research (1-6) BC SOK
PR: Completion of four social work courses including SOW 3401, upper level standing and school permission. Majors only. Directed Research is intended to provide students with research experience in areas of specific interest in social work. A contract will be developed between student and instructor specifying nature of work to be completed.

SOW 4930 Variable Topics in Social Work (1-3) BC SOK
Restricted to Social Work majors; others by School permission. Variable title courses to expand on the four sequence areas in the Social Work core curriculum. Allows focus on areas relevant to student's educational interest.

SPA 3002 Introduction to Disorders of Speech and Language SS (3) BC CSD
PR: Junior standing and DPR. The scope of speech-language pathology as a profession and a field of study. An introduction to speech and language disorders, etiologies, major treatment approaches, and research findings.

SPA 3004 Introduction to Language Development and Disorders (3) BC CSD
PR: Junior standing. This course introduces theoretical concepts and research findings concerning the normal developmental process of language learning as a basis for differentiating developmental delay or disorder of language.

SPA 3011 Introduction to Speech Science (3) BC CSD
PR: Junior standing, SPA 3030, SPA 3112. Concentrated study of the acoustic, physiological and perceptual aspects of sound as related to normal and pathological speech communication. Introduction to instrumentation and measurement...
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
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<tbody>
<tr>
<td>SPA 3030</td>
<td>Introduction to Hearing Science</td>
<td>3 BC</td>
<td>CSD</td>
</tr>
<tr>
<td>SPA 3101</td>
<td>Anatomy and Physiology of the Speech and Hearing Mechanism</td>
<td>3 BC</td>
<td>CSD</td>
</tr>
<tr>
<td>SPA 3112</td>
<td>Applied Phonetics in Communication Disorders</td>
<td>3 BC</td>
<td>CSD</td>
</tr>
<tr>
<td>SPA 3261</td>
<td>Language Science for Comm. Sciences &amp; Disorders</td>
<td>3 BC</td>
<td>CSD</td>
</tr>
<tr>
<td>SPA 3310</td>
<td>Introduction to Disorders of Hearing</td>
<td>3 BC</td>
<td>CSD</td>
</tr>
<tr>
<td>SPA 3311</td>
<td>Introduction to Disorders of Hearing (Lab)</td>
<td>3 BC</td>
<td>CSD</td>
</tr>
<tr>
<td>SPA 3312</td>
<td>Applied Phonetics in Communication Disorders (Lab)</td>
<td>3 BC</td>
<td>CSD</td>
</tr>
<tr>
<td>SPA 3321</td>
<td>Introduction to Audiologic Rehabilitation</td>
<td>3 BC</td>
<td>CSD</td>
</tr>
<tr>
<td>SPA 3511</td>
<td>Introduction to Disorders of Hearing</td>
<td>3 BC</td>
<td>CSD</td>
</tr>
<tr>
<td>SPA 3512</td>
<td>Introduction to Disorders of Hearing (Lab)</td>
<td>3 BC</td>
<td>CSD</td>
</tr>
<tr>
<td>SPA 3513</td>
<td>Auditory Functions</td>
<td>3 BC</td>
<td>CSD</td>
</tr>
<tr>
<td>SPA 4201</td>
<td>Phonological Development and Disorders</td>
<td>3 BC</td>
<td>CSD</td>
</tr>
<tr>
<td>SPA 4222</td>
<td>Fluency Disorders</td>
<td>3 BC</td>
<td>CSD</td>
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<tr>
<td>SPA 4225</td>
<td>Adult Communication Disorders</td>
<td>3 BC</td>
<td>CSD</td>
</tr>
<tr>
<td>SPA 4231</td>
<td>Introduction to Auditory Functions</td>
<td>3 BC</td>
<td>CSD</td>
</tr>
</tbody>
</table>

**Course Descriptions**

**SPA 3030 Introduction to Hearing Science (3) BC CSD**

PR: Junior standing. Introduction to the field of hearing including: physics of sound, auditory anatomy and physiology, and psychophysics of hearing.

**SPA 3101 Anatomy and Physiology of the Speech and Hearing Mechanism (3) BC CSD**

PR: Junior standing. The neurological and anatomical basis of communication disorders. Comparisons of normal and pathological organic structures and their functional dynamics.

**SPA 3112 Applied Phonetics in Communication Disorders (3) BC CSD**

Introduction to phonetic analysis of normal and disordered speech, including extensive training and listening laboratory experiences in phonetic transcription of normal and disordered speech using the International Phonetic Alphabet.

**SPA 3261 Language Science for Comm. Sciences & Disorders (3) BC CSD**

This course will present a focused introduction to linguistics and psycholinguistics from the perspective of CSD. Students will learn the fundamentals of language structure, basic facts about language processing, and how they relate to CSD.

**SPA 3310 Introduction to Disorders of Hearing (3) BC CSD**

The etiology, pathology, and management of disorders of the outer ear, middle ear, inner ear, retrocochlear, and central auditory systems.

**SPA 3311 Introduction to Disorders of Hearing (Lab) (3) BC CSD**

This course orients the student to the environment. This course orients the student to the education and speech science relating to the educational perspective of CSD.

**SPA 3312 Applied Phonetics in Communication Disorders (Lab) (3) BC CSD**

Introduction to phonetic analysis of normal and disordered speech, including extensive training and listening laboratory experiences in phonetic transcription of normal and disordered speech using the International Phonetic Alphabet.

**SPA 3321 Introduction to Audiologic Rehabilitation (3) BC CSD**

Assessment and management of individuals with...
hearing loss. Topics include: effects of hearing loss; assessment and intervention, including: a) amplification and cochlear implants; b) speechreading and auditory training; c) communication intervention.

SPA 4510 Intro. to Clinical Methods and Counseling in CSD (3) BC CSD
PR: SPA 3004, SPA 3310. This course introduces the student to fundamental skills and knowledge needed prior to beginning clinical work in speech-language pathology/audiology. Professional/ethical issues, principles of assessment/intervention, & interviewing skills are included.

SPA 4555 Counseling of Communicatively Handicapped and Family (3) BC CSD
PR: SPA 3011 and SPA 3310. Discussion of role of counseling in the treatment of communication disorders. Based on exploration of theoretical constructs, this course demonstrates application of therapeutic methodologies to reduction of communication handicaps.

SPA 4632 Nature and Needs of the Deaf and Hard of Hearing (3) BC CSD
A study of the effects of auditory disorders upon the organization and expression of behavioral patterns as they relate to motivation, adjustment and personality.

SPA 4901 Research, Clinical, and Professional Issues in CSD (3) BC CSD
PR: Admission to CSD departmental honors OR CI
This course introduces students to principles of research in CSD & provides an introduction to advanced areas of study in the field. Students are presented with the basic tools of research & will learn about the breadth of research conducted in the field.

SPA 4906 Independent Study (1-10) BC CSD
Indep. Study will allow UG students to work independently under the supervision of Faculty members in the pursuit of content gained independently. The course is repeatable for a total of 10 credits. Majors only.

SPA 4910 Directed Research (1-10) BC CSD
Directed Research will allow the UG student to obtain supervised research experience under the direction of a Faculty member. The course is repeatable for a total of 10 credits. Majors only.

SPA 4930 Selected Topics (1-6) BC CSD
PR: DPR. Intensive study of topics in Speech-Language Pathology, Audiology, and/or Aural Rehabilitation conducted under the supervision of a faculty member.

SPA 4962 Undergraduate Comprehensive Examination (1) BC CSD
PR: INT 4250. This purpose of this course is to ensure that graduates from ITT are thoroughly prepared for entry into the job market. For majors only and repeatable if necessary. It consists of 2 parts: individual meetings with an advisor and a comprehensive exam.

SPA 4970 Honors Thesis (1-10) BC CSD
The student, under the supervision of a Faculty member will formalize, conduct, analyze and report in writing a research project in the Department of Communication Sciences and Disorders. The course is repeatable for a total of 10 credits. Majors only.

SPA 5120 Psychoacoustics (3) BC CSD

SPA 5132 Audiology Instrumentation (3) BC CSD
PR: SPA 5120, SPA 6930, SPA 5506. Instruction in the use of clinical and laboratory instrumentation. Emphasis placed on electronic circuitry, signal generation, filtering, and calibration. Hands-on experience with equipment typically used in clinical auditory research will be provided.

SPA 5133C Speech Science Instrumentation (3) BC CSD
PR: DPR or SPA 3011 or equivalent. Underlying principles and laboratory exercises in the use of audio recording, acoustic analysis, and clinical instrumentation.

SPA 5153 Quantitative Problem Solving in Speech Pathology and Audiology (3) BC CSD
Covers fundamental mathematical and statistical concepts underlying the field of Communication Sciences and Disorders and application of these concepts to practical and clinical problems. Not restricted to majors or repeatable for credit.

SPA 5204 Advanced Clinical Phonology (3) BC CSD
The principles of generative phonology will be applied to the assessment and treatment of phonological disorders. Emphasis is placed on making a child’s phonology more functional for communication purposes.

SPA 5303 Auditory Anatomy and Physiology (3) BC CSD
Provide a comprehensive understanding of the physiological acoustics of the auditory periphery, neuroanatomy and electrophysiology of the central auditory system, and psychoacoustic principles as they relate to clinical audiologic measurement paradigms.

SPA 5328 Rehabilitative Audiology for Adults (3) BC CSD

SPA 5403 Language-Learning in the School-Age Years (3) BC CSD
Metalinguistic and metacognitive development are linked to the interactional demands of classroom and clinical discourse; observational tools are
applied to evaluation and intervention planning.

**SPA 5506 Speech-Language Pathology and Audiology Practicum (1-8) BC CSD**
PR: DPR. Participation in speech-language pathology and audiology practicum in the University Communication Disorders Center and selected field settings.

**SPA 5552 Diagnostic Principles and Practices (3) BC CSD**
PR: Admission to the graduate program or DPR. The administration, evaluation, and reporting of diagnostic tests and procedures used in assessment of speech and language disorders.

**SPC 2541 Persuasion SS (3) AS SPE**
Examines the role of persuasion in public and social life. Students will be introduced to key concepts and theories of persuasion from a variety of historical and contemporary perspectives. Students will use these concepts to create, analyze, and respond to persuasive messages.

**SPC 2608 Public Speaking CAHU SS (3) AS SPE**
The nature and basic principles of human communication; emphasis on improving speaking and listening skills common to all forms of oral communication through a variety of experiences in public discourse.

**SPC 3212 Communication Theory (3) AS SPE**
PR: SPC 2608 and COM 2000 each with C- or above or CI. The study of source, message, and receiver variables in human communication; communication settings; descriptive and predictive models of communication; communication as a process.

**SPC 3230 Rhetorical Theory HP (3) AS SPE**
PR: SPC 2608 and COM 2000 each with C- or above or CI. This course surveys the foundations and historical evolution of major concepts, issues, theorists, and approaches to the study of rhetoric from Plato to recent contemporary theorists.

**SPC 3301 Interpersonal Communication SS CASB (3) AS SPE**
A study of interpersonal communication in informally structured settings with emphasis on the understanding, description, and analysis of human communication.

**SPC 3425 Group Communication 6A (3) AS SPE**
PR: SPC 2608 and COM 2000 each with C- or above or CI. A survey of theory and research in group communication. Group discussions and communication exercises to increase awareness of the dynamics of human communication in small group settings.

**SPC 3513 Argumentation and Debate (3) AS SPE**
PR: Junior standing or CI. Study of principles of argumentation as applied in oral discourse, analysis of evidence and modes of reasoning. Practice in debate preparation and delivery.

**SPC 3602 Advanced Public Speaking (3) AS SPE**
PR: SPC 2608 and COM 2000 each with C- or above or CI. Study and application of communication strategies in speaking extemporaneously and from manuscript. The course includes study of selected public addresses as aids to increased understanding of speaking skills.

**SPC 3653 Popular Forms of Public Communication (3) AS SPE**
PR: COM 2000 with C or above or consent of instructor (CI). Analysis of public communication with emphasis on various presentational forms.

**SPC 3680 Rhetorical Analysis (3) AS SPE**
PR: SPC 2608 and COM 2000 each with C- or above or CI. This course introduces students to fundamentals of message analysis. Student examines persuasive strategies and language in oral and written discourse.

**SPC 3710 Communication and Cultural Diversity SS CAGC HHCP (3) AS SPE**
Examination of communication and cultural diversity within the United States. Cultural groups include gender, racial and ethnic (e.g., African American, Latino American, Asian American), social class, age and generation, religious (e.g. Jewish) and physical ability.

**SPC 4201 Oral Tradition MW (3) AS SPE**
Study of orality, its forms, functions, and transformations, in traditional and literate societies from folkloric and psychological traditions and from contemporary communication and cultural studies perspectives.

**SPC 4305 Communicating Emotions 6A (3) AS SPE**
PR: COM 2000 with C or above or consent of instructor (CI). Study of emotional experience, what emotions mean to us, how we talk about them, and the ways group and cultural membership influence them. Focus on attachment and loss in romantic, family and group relationships.

**SPC 4307 Talk in Relationships (3) AS SPE**
PR: SPC 3301. Explores talk as practical action through observation, transcription, and analysis. For majors only; non-majors by permit. May not be repeated for credit.

**SPC 4310 Relationships on Film (3) AS SPE**
PR: COM 2000 with C or above or consent of instructor (CI). Examination of the ways in which cinema inscribes conceptions and meanings of romance, love, intimacy and sexuality. Focus on systems of interpretation fostered by cinema representations of intimacy, sexuality, emotion, subjectivity, and betrayal.

**SPC 4321 Communication and Aging (3) AS SPE**
PR: SPC 3301. Examines theories of aging through intergenerational and interpersonal communication, explores aging in the media, and considers contexts of communication in older adulthood. Majors only; non-majors by permit only. May not be repeated for credit.

**SPC 4431 Family Communication (3) AS SPE**
PR: SPC 3301 and COM 2000 with C- or above or CI. Examines the processes and functions of communication in family relationships. Examination of scholarly and popular literature on family
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2013-2014 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPC 4632</td>
<td>Rhetoric and Social Change 6A MW (3) AS SPE</td>
<td></td>
<td>PR: SPC 3230 or SPC 3680. This course examines how social change is symbolized and motivated in the rhetorics of institutions, campaigns, social movements and individuals.</td>
</tr>
<tr>
<td>SPC 4683</td>
<td>Rhetorical Analysis of Mass Media (3) AS SPE</td>
<td></td>
<td>PR: SPC 3230 or SPC 3680, SPC 2608 and COM 2000 each with a C or above or CI. An introduction to the criticism of media forms and effects. Contemporary perspectives on the aesthetic and persuasive dimensions of mass media are examined. Students will engage in critical study of media artifacts.</td>
</tr>
<tr>
<td>SPC 4701</td>
<td>Intercultural Communication (3) AS SPE</td>
<td></td>
<td>PR: COM 2000. Explores issues of culture, power, and politics inherent in the ways we practice intercultural communication. For majors only; non-majors by permit only. May not be repeated for credit.</td>
</tr>
<tr>
<td>SPC 4714</td>
<td>Communication, Culture and Community MW (3) AS SPE</td>
<td></td>
<td>PR: Admission to Communication Honors Program. Involves individual research and preparation of an undergraduate honors thesis.</td>
</tr>
<tr>
<td>SPC 4900</td>
<td>Directed Readings (1-3) AS SPE</td>
<td></td>
<td>PR: Admission to Communication Honors Program, COM 2000 AND SPC 2608 with grades of C or better. Focused readings directed toward preparation of a proposal for an undergraduate honors thesis.</td>
</tr>
<tr>
<td>SPC 4905</td>
<td>Undergraduate Research (1-3) AS SPE</td>
<td></td>
<td>PR: Senior standing, COM 2000, a minimum GPA of 2.5, 15 hours of core requirements and 9 elective hours completed, and/or CI. Individualized reading with professor to complement undergraduate research projects.</td>
</tr>
<tr>
<td>SPC 4903</td>
<td>Honors Readings (3) AS SPE</td>
<td></td>
<td>PR: Senior standing, COM 2000, a minimum GPA of 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. Individual investigations with faculty supervision.</td>
</tr>
<tr>
<td>SPC 4905</td>
<td>Undergraduate Research (1-3) AS SPE</td>
<td></td>
<td>PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. Variable topics.</td>
</tr>
<tr>
<td>SPC 4932</td>
<td>Senior Seminar in Communication (3) AS SPE</td>
<td></td>
<td>PR: Senior standing, COM 2000, a minimum GPA of 2.5, 15 hours of core requirements and 9 elective hours completed, and/or CI. Exploration of selected topics of current significance to the several areas of communication through group discussion and research.</td>
</tr>
<tr>
<td>SPC 4970</td>
<td>Honors Thesis (3) AS SPE</td>
<td></td>
<td>PR: Admission to Communication Honors Program. Involves individual research and preparation of an undergraduate honors thesis.</td>
</tr>
<tr>
<td>SPC 5930</td>
<td>Topics in Discourse (3) AS SPE</td>
<td></td>
<td>Variable topics course.</td>
</tr>
<tr>
<td>SPM 3012</td>
<td>Issues in Sport MW (3) ED EDP</td>
<td></td>
<td>A study of organized sport as a pervasive part of contemporary society. By increasing understanding of some of the issues and controversies based on the structure of sport and society, individuals will be able to understand and improve sport experiences for themselves and others.</td>
</tr>
<tr>
<td>SPM 3256</td>
<td>Sport in Society: Contemporary Issues (3) ED EDP</td>
<td></td>
<td>A study of organized sport in society. Individuals will be able to understand issues such as race, social class, gender, politics, religion, economics, media, physical disabilities, sexual orientation, and ethics as they relate to sports.</td>
</tr>
<tr>
<td>SPN 1120</td>
<td>Beginning Spanish I (4) AS WLE</td>
<td></td>
<td>PR: SPC 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. Not open to native or near-native speakers of Spanish. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.</td>
</tr>
<tr>
<td>SPN 1120L</td>
<td>Beginning Spanish I Laboratory (1) AS WLE</td>
<td></td>
<td>PR: SPC 1120. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. Not open to native or near-native speakers of Spanish. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.</td>
</tr>
<tr>
<td>SPN 1121</td>
<td>Beginning Spanish II (4) AS WLE</td>
<td></td>
<td>PR: SPC 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. Not open to native or near-native speakers of Spanish. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.</td>
</tr>
<tr>
<td>SPN 1121L</td>
<td>Beginning Spanish II Laboratory (1) AS WLE</td>
<td></td>
<td>PR: SPC 1121. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. Not open to native or near-native speakers of Spanish. S/U only. A laboratory designed to offer additional practice using various instructional technologies and media.</td>
</tr>
<tr>
<td>SPM 2200</td>
<td>Spanish III (3) AS WLE</td>
<td></td>
<td>PR: SPC 2200 or equivalent. May NOT be taken concurrently with SPC 2201. Not open to native or near-native speakers of Spanish. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.</td>
</tr>
<tr>
<td>SPM 2201</td>
<td>Spanish IV (3) AS WLE</td>
<td></td>
<td>PR: SPC 2200 or equivalent. May NOT be taken concurrently with SPC 2201. Not open to native or near-native speakers of Spanish. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.</td>
</tr>
</tbody>
</table>
| SPM 2240    | Conversation I (3) AS WLE                         |              | PR: SPC 2201. Not open to native or near-native speakers of Spanish. For development of basic
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Type</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPN 2241</td>
<td>Conversation II</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPN 2240 or equivalent. Not open to native or near-native speakers of Spanish. To improve fluency in spoken Spanish.</td>
</tr>
<tr>
<td>SPN 2270</td>
<td>Overseas Study</td>
<td>(1-6)</td>
<td>AS WLE</td>
<td>PR: SPN 1121. Prior departmental approval and early registration are required. An intensive study-travel program in a Spanish-speaking country.</td>
</tr>
<tr>
<td>SPN 2340</td>
<td>Advanced Spanish for Native Speakers I</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: Native and near-native oral/aural proficiency. May not count as Spanish major elective. Course for native and near-native speakers of Spanish due to home environment and/or residence in a Spanish speaking country, but without formal training in the language. Emphasis on cultural exploration and the grammatical problems of such speakers.</td>
</tr>
<tr>
<td>SPN 2341</td>
<td>Advanced Spanish for Native Speakers II</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPN 2340. May not count as Spanish major elective. Continuation of SPN 3340. Course for native and near-native speakers of Spanish due to home environment and/or residence in a Spanish speaking country, but with limited or no training in the language. Emphasis on grammar problems affecting such speakers.</td>
</tr>
<tr>
<td>SPN 3300</td>
<td>Advanced Spanish Grammar and Composition</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPN 2201 or equivalent. Not open to native or near-native speakers of Spanish. A study of syntax, grammar and writing.</td>
</tr>
<tr>
<td>SPN 3391</td>
<td>Latin American Cinema</td>
<td>(3)</td>
<td>AP SCL</td>
<td>PR: SPN 2240, with a minimum grade of C- or better. Interdisciplinary &amp; cross-cultural survey of Latin American Cinema from the 1960’s and 1970’s to the present. Cover many of the principle countries. Discuss films as cultural, historical, political, &amp; economic products. The course is taught in Spanish.</td>
</tr>
<tr>
<td>SPN 3440</td>
<td>Spanish for Business and International</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPN 2201 or equivalent. A study of vocabulary and business practices of the Spanish speaking world. Overview of cultural differences within the Spanish speaking world, with emphasis on their impact on business and international trade.</td>
</tr>
<tr>
<td>SPN 3441</td>
<td>Spanish for Business and International</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPN 3440 or equivalent. Open to Spanish and Business majors and minors. Continuation of SPN 3440. A study of vocabulary and business practices of the Spanish speaking world. Overview of cultural differences within the Spanish speaking world, with emphasis on their impact on business and international trade.</td>
</tr>
<tr>
<td>SPN 3500</td>
<td>Spanish Civilization</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPN 2201 or equivalent. The culture and civilization of Spain. For majors and non-majors.</td>
</tr>
<tr>
<td>SPN 3520</td>
<td>Spanish American Civilization</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPN 2201 or equivalent. Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.</td>
</tr>
<tr>
<td>SPN 4301</td>
<td>Expository Writing</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPN 3300 or SPN 2340. Practical training in contemporary Spanish structure, usage and stylistic devices.</td>
</tr>
<tr>
<td>SPN 4410</td>
<td>Advanced Conversation</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPN 2241 or equivalent. Not open to native or near-native speakers of Spanish. Intensive practice in the formulation and expression of ideas in standard Spanish.</td>
</tr>
<tr>
<td>SPN 4470</td>
<td>Advanced Overseas Study</td>
<td>(1-6)</td>
<td>AS WLE</td>
<td>PR: SPN 2270. Departmental approval required. Intensive language study in Spain.</td>
</tr>
<tr>
<td>SPN 4700</td>
<td>Spanish Linguistics</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: LIN 3010 or equivalent (may be taken concurrently with CI) and SPN 2201 or equivalent. An introduction to Hispanic linguistics: Phonology, morphology, syntax, and lexicography.</td>
</tr>
<tr>
<td>SPN 5525</td>
<td>Modern Spanish American Civilization</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPN 3520 or equivalent or graduate standing. Advanced readings and discussions dealing with Spanish American civilization and culture, including a study of social, artistic and political trends. Text and discussion in Spanish.</td>
</tr>
<tr>
<td>SPN 5567</td>
<td>Modern Spanish Civilization</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPN 3500 or equivalent or graduate standing. Advanced readings and discussions dealing with contemporary Spanish civilization and culture, including a study of recent social, artistic and political trends. Texts and discussions in Spanish.</td>
</tr>
<tr>
<td>SPT 3100</td>
<td>Masterpieces of Hispanic Literature</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPN 3520 or equivalent or graduate standing. Advanced readings and discussions dealing with Spanish American civilization and culture, including a study of social, artistic and political trends. Text and discussion in Spanish.</td>
</tr>
<tr>
<td>SPT 3520</td>
<td>Spanish American Civilization</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPN 2201 or equivalent. Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.</td>
</tr>
<tr>
<td>SPW 3030</td>
<td>Introduction to Hispanic Literary Studies</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPN 3300 or SPN 2340. Prose fiction, drama, poetry, and essay; techniques of literary analysis.</td>
</tr>
<tr>
<td>SPW 4100</td>
<td>Survey of Spanish Literature I</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPW 3030 or equivalent. A study of Spanish literature from its origins through the 17th century.</td>
</tr>
<tr>
<td>SPW 4101</td>
<td>Survey of Spanish Literature II</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPW 3030 or equivalent. A study of the later periods of Spanish literature.</td>
</tr>
<tr>
<td>SPW 4130</td>
<td>Survey of Spanish American Literature I</td>
<td>(3)</td>
<td>AS WLE</td>
<td>PR: SPN 2201 or equivalent. Not open to native or near-native speakers of Spanish. Intensive practice in the formulation and expression of ideas in standard Spanish.</td>
</tr>
</tbody>
</table>
PR: SPW 3030 or equivalent. Introduction to the study of Spanish American literature from the Discovery to the Romantic period. Emphasis will be on foundational writers of history, descriptive and lyric poetry, theater, fiction and essay.

SPW 4131 Survey of Spanish-American Literature II (3) AS WLE
PR: SPW 3030 or equivalent. An introduction to the study of Spanish-American literature from the Modernism period to the present. Emphasis on modern writers since Dario.

SPW 4900 Directed Study (1-3) AS WLE
Departmental approval required.

SPW 4930 Selected Topics (1-3) AS WLE
Study of an author, movement or theme.

SPW 5135 Colonial Spanish American Literature (3) AS WLE
PR: SPW 4131. Introduction to Colonial Spanish American Literature from the discovery through the Romantic Period.

SPW 5339 Golden Age Drama (3) AS WLE
PR: SPW 4100. Lope de Vega, Alarcon, Tirso, Calderon, and others.

SPW 5387 Spanish American Prose (3) AS WLE
PR: SPW 4131. Emphasis on the gaucheo theme and contemporary prose fiction

SPW 5405 Medieval Literature (3) AS WLE
PR: SPW 4100 or equiv. Course gives an in-depth study of principal works and authors of the period such as El Poema de Mio Cid, Libro de Buen Amor, and La Celestina.

SPW 5465 19th Century Literature (3) AS WLE

SPW 5605 Cervantes (3) AS WLE
Cervantes’ masterpiece Don Quijote de la Mancha.

SPW 5725 Generation of 1898 (3) AS WLE
PR: SPW 4101. The major figures of the period and their main followers.

SPW 5934 Selected Topics (3) AS WLE
PR: Upper-level or GS. Study of an author, movement, or theme.

SSE 4313 Teaching Elementary (K-6) Social Studies (3) ED EDE
PR: Admission to College of Education or CI. This course is designed to study techniques and strategies employed by K-6 social studies teachers that are effective in motivating elementary school aged youth to acquire the information, skills, and modes of reasoning unique to the social sciences.

SSE 4333 Teaching Middle Grades Social Science (3) ED EDI
This course is designed to study techniques and strategies employed by social sciences teachers that are effective in motivating teenage youth to acquire the information, skills, and modes of reasoning unique to the social sciences. Students are expected to plan and present instructional plan(s) demonstrating use of various methods, techniques, and material that achieve concrete outcomes. Theoretical foundations of social studies are also studied. Field work is required.

SSE 4334 Teaching Secondary Grades Social Science (3) ED EDI
PR: SSE 4333. This course is a continuation of SSE 4333 with further development of the instructional techniques and strategies and the information, skills, and modes of reasoning unique to the social sciences with an emphasis on the secondary school environment. The teaching profession, school settings, legal, and classroom management issues are also studied. Fieldwork in a high school is required.

SSE 4335 Teaching Social Science Themes (3) ED EDI
PR: SSE 4333 for Undergraduate Students; SSE 5331 for Graduate Students; SSE Majors only. The course is a laboratory-based, capstone course in which knowledge, skills, and dispositions are demonstrated by students teaching social studies content using the thematic approaches adopted by the National and State accrediting bodies.

SSE 4380 Global And Multicultural Perspectives in Education MW (3) ED EDI
PR: EDG 3604 and EDG 4620, or DPR. Examination of the major issues surrounding global and multicultural perspectives in education. Available to non-Education majors.

SSE 4600 Reading and Basic Skills in the Social Studies Class (3) ED EDI
Reading skills and other basic skills as applied to the social studies are examined. Students plan and present instruction appropriate to the social studies classroom. Fieldwork in middle or senior high schools is required. Restricted to majors.

SSE 4936 Senior Seminar in Social Science Education CPST (3) ED EDI
PR: SSE 4333 for Undergraduate Students; SSE 5331 for Graduate Students; SSE Majors only. The course is a laboratory-based, capstone course in which knowledge, skills, and dispositions are demonstrated by students teaching social studies content using the thematic approaches adopted by the National and State accrediting bodies.

SSE 4936 Senior Seminar in Social Science Education CPST (3) ED EDI
PR: SSE 4333 for Undergraduate Students; SSE 5331 for Graduate Students; SSE Majors only. The course is a laboratory-based, capstone course in which knowledge, skills, and dispositions are demonstrated by students teaching social studies content using the thematic approaches adopted by the National and State accrediting bodies.

SSE 4936 Senior Seminar in Social Science Education CPST (3) ED EDI
PR: SSE 4333 for Undergraduate Students; SSE 5331 for Graduate Students; SSE Majors only. The course is a laboratory-based, capstone course in which knowledge, skills, and dispositions are demonstrated by students teaching social studies content using the thematic approaches adopted by the National and State accrediting bodies.

SSE 4936 Senior Seminar in Social Science Education CPST (3) ED EDI
PR: SSE 4333 for Undergraduate Students; SSE 5331 for Graduate Students; SSE Majors only. The course is a laboratory-based, capstone course in which knowledge, skills, and dispositions are demonstrated by students teaching social studies content using the thematic approaches adopted by the National and State accrediting bodies.

SSE 4936 Senior Seminar in Social Science Education CPST (3) ED EDI
PR: SSE 4333 for Undergraduate Students; SSE 5331 for Graduate Students; SSE Majors only. The course is a laboratory-based, capstone course in which knowledge, skills, and dispositions are demonstrated by students teaching social studies content using the thematic approaches adopted by the National and State accrediting bodies.

SSE 5331 Foundations, Curriculum & Instruction of Social Science Education (3) ED EDI
Social studies curriculum, methods of instruction and social, philosophical and psychological foundations are examined. Students are expected to plan and present instructional plan(s) appropriate to middle and secondary school levels demonstrating command of the course content.

SSE 5332 Methods & Strategies in Social Science Education (3) ED EDI
Social studies methods and strategies are examined with an emphasis on the secondary school environment. The teaching profession, school settings, and current issues are examined.
Students are expected to plan and present instructional plan(s) appropriate to senior high school demonstrating command of the course content.

**SSE 5641 Reading and Basic Skills in the Content Area (3) ED EDI**

Reading skills and the other basic skills as applied to the social studies are examined. Students are expected to plan and present instructional plan(s) appropriate to the social studies classroom demonstrating command of the course content. Fieldwork in a middle school is required.

**SSE 5946 Practicum in Social Science Education (3) ED EDI**

PR: SSE 5331. The course is a practicum course in which pre-service teachers apply the knowledge, skills, and dispositions learned in prerequisite program courses to teach the social studies themes adopted by the National Council for the Social Studies.

**STA 2023 Introductory Statistics I 6A QM CAQR (3) AS MTH**

PR: C (2.0) or better in High School Algebra or Elementary Algebra CPT score of 72 or better. Descriptive and Inferential Statistics; Principles of Probability Theory, Discrete and Continuous Probability Distributions: Binomial Probability Distribution, Poisson Probability Distribution, Uniform Probability Distribution, Normal Dist and more.

**STA 2122 Social Science Statistics 6A QM CAQR (3) AS ISS**

Students are taught the fundamental vocabulary and symbols of statistics as well as commonly used statistical procedures in social sciences. Students conduct analyses, interpret results and make conclusions about research questions.

**STA 3024 Introductory Statistics II 6A (3) AS MTH**

PR: STA 2023 or CC. Factorials, ANCOV; multiple curvilinear regression; response surfaces; Latin squares, Split Plots, incomplete designs; distribution free methods.

**STA 3027 Statistics and Probability Connections (3) AS MTH**

PR: Calculus I. This course will provide prospective teachers with experiences in statistics and probability theory that will help them develop the specialized content knowledge needed to support the teaching of mathematics in middle level education.

**STA 4102 Computational Methods for Applied Statistics (3) AS MTH**

PR: STA 2023 and STA 3024. This course introduces fundamentals of the R and SAS statistical software packages. Topics include data manipulation, graphs, regression, ANOVA, hypothesis testing, and non-parametric tests.

**STA 4222 Sample Survey Design (3) AS MTH**

PR: STA 2023 and STA 3024. The course covers common statistical survey design methods, including random sampling, stratified sampling, systematic sampling, and cluster sampling. Other topics include bias and non-sampling errors.

**STA 4321 Essentials of Statistics 6A (3) AS MTH**


**STA 4442 Introduction to Probability 6A (3) AS MTH**

PR: MAC 2313. Introduction to probability theory using calculus. Basic ideas of probability and random variables, discrete probability functions, continuous probability densities, joint distributions, transformations of random variables, moments and generating functions of random variables, limit theorems.

**STA 4502 Nonparametric Statistical Methods (3) AS MTH**

PR: STA 4321. This course covers the fundamental concepts, and provides examples, of nonparametric statistical methods. Topics to be covered include sample testing, estimation methods, layout models, correlation and regression models, and goodness of fit tests.

**STA 4504 Categorical Data Analysis (3) AS MTH**

PR: STA 4321. Fundamental concepts and examples of categorical data analysis. Topics include description and inference using proportions and odd ratios, multi-way contingency tables, logistic regression and other generalized linear models, and log linear models.

**STA 4702 Multivariate Statistical Methods (3) AS MTH**

PR: STA 4321. This course covers the fundamental concepts of multivariate analysis. Topics to be covered include Matrix theory and distributions (normal, t, chi-squared, F), inference about multivariate means and inference about covariance structure.

**STA 4852 Applied Time Series (3) AS MTH**

PR: STA 4321 and STA 4442. This course covers the fundamental concepts, estimations, and hypothesis testing of discrete time series models. The models will be developed using the autoregressive and moving average processes. Numerous examples will be provided.

**STA 4930 Selected Topics (1-4) AS MTH**

PR: Depends on Topic Rotating topics designed to meet the need and interests of students.

**STA 5166 Statistical Methods I (3) AS MTH**

PR: STA 4321 or CI. Statistical analysis of data by means of statistics package programs. Regression, ANOVA, discriminant analysis, and analysis of categorical data. Emphasis is on inter-relation between statistical theory, numerical methods, and analysis of real life data.

**STA 5326 Mathematical Statistics I (3) AS MTH**

PR: STA 5446. Sample distribution theory, point & interval estimation, optimality theory, statistical decision theory, and hypothesis testing.

**STA 5446 Probability Theory I (3) AS MTH**

PR: STA 4442 and MAC 4212 or CI. Axioms of probability, random variables in Euclidean spaces,
### COURSE DESCRIPTIONS

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**STA 5526 Non-Parametric Statistics (3) AS MTH**

PR: STA 5326 or CC. Theory and methods of non-parametric statistics, order statistics, tolerance regions, and their applications.

**SUR 2101C Engineering Land Surveying (3) EN EGX**

Principles of land surveying for engineering practice. Traverses, levels, boundary surveys, route surveys, coordinate geometry, and mapping.

**SYA 3110 Classical Theory (3) AS SOC**

PR: SYG 2000 or CI. The analysis of the philosophical foundations, central principles, and historical development of Sociological theory. Required for Sociology majors and minors.

**SYA 3120 Contemporary Theory (3) AS SOC**

PR: SYA 3110 and SYG 2000 or CI. An examination of recent trends in sociological theory. Emphasis is on theories examining symbolic interactions, lived experience, popular culture, and social structures.

**SYA 3300 Research Methods (3) AS SOC**

PR: STA 2122 or equivalent. Introduction to the scientific method and its application to social science research. Research design, sampling techniques, and critical evaluation of social research. Required for Sociology majors.

**SYA 3310 Qualitative Inquiry 6A LW (3) AS SOC**

PR: SYG 2000 or CI. DPR. Exploration of human relationships and behaviors, organizations, and the larger culture through research techniques such as interviews, participant observation, life histories, and narratives.

**SYA 4121 Queer Theory (3) AS SOC**

PR: Any one of the following: SYG 2000, SYG 2010; WST 2600; WST 3015, WST 2250; WST 3311. Examines queer theory’s radical deconstruction of categories for understanding the possibility of theorizing "women's" and "men's" lives. The primary goal of this course is to introduce students to queer theory and feminist theories of sexuality.

**SYA 4304 Sociological Research Experience (1-3) AS SOC**

PR: SYG 2000 and class standing of sophomore, junior or senior. A flexible-unit course for advanced undergraduate students interested in participating in an ongoing faculty research project. Students will complete selected research tasks (background research, data collection and data analysis) with faculty supervision.

**SYA 4910 Individual Research (1-3) AS SOC**

PR: Four courses in sociology, including SYA 3300, upper level standing, at least 3.0 overall GPA, or CI. DPR. Content depends on the interest of the student. A contract between the student and the sponsoring faculty member must be signed before class registration.

**SYA 4930 Topics in Sociology (3) AS SOC**

Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester. This course, in different content areas, may be repeated for credit.

**SYA 4935 Senior Seminar MW CPST (3) AS SOC**

PR: Senior standing, SYG 2000, SYA 3110, SYA 3300 plus 6 hours of Sociology electives. Majors only. DPR. The opportunity for senior sociology majors to apply sociological theory and methods to topics of relevance in today's society.

**SYA 4949 Sociological Internship (1-6) AS SOC**

PR: Senior or graduate standing in Sociology plus CI. Supervised placement in community organization or agency for a minimum of 10 hours of volunteer work per week, and a weekly seminar on applying sociological skills and methods in the placement setting.

**SYD 3700 Racial and Ethnic Relations SS HP CASB (3) AS SOC**

This course introduces students to a sociological understanding of race and ethnic relations. Students will analyze sociological theories on race and stratification through readings, lectures, discussion, multimedia, and group research projects.

**SYD 4238 Immigrants to America (3) AS SOC**

PR: SYG 2000 or SYG 2010. Examines major sociological debates in the field of immigration with an emphasis on recent immigrants to the United States.

**SYD 4410 Urban Sociology (3) AS SOC**

The social structure of the community in modern industrial societies. Analysis of community change.

**SYD 4411 Urban Life CPST (3) AS SOC**

PR: SYG 2000. PR: Senior Standing. This exit course introduces students to the theory and practice of urban and community research. Students will conduct supervised individual and group research on a Tampa Bay neighborhood of their choice.

**SYD 4512 Sustainable Consumption (3) AS SOC**

PR: SYG 2000. 1. This course examines the relationship between the current environmental crisis and the consumer lifestyle shared by most Americans that is spreading globally.

**SYD 4800 Gender and Society (3) AS SOC**

Historical and current issues surrounding gender in America. Emphasis on exploring the causes, meaning, and consequences of gender differences, interpersonal relationships, and institutional participation.

**SYG 2000 Introduction to Sociology SS CASB (3) AS SOC**

This course introduces undergraduate students to the discipline of sociology. During the semester, we will analyze sociological theories, core concepts, and issues through readings, lectures, discussions, films, and hands-on research assignments.
COURSE DESCRIPTIONS

SYG 2010 Contemporary Social Problems SS CASB (3) AS SOC
This course introduces students to a sociological understanding of "contemporary social problems." Drawing on such concepts as culture, deviance and social institutions, we will analyze varying definitions, causes and solutions to these problems.

SYG 3011 Social Problems Through Film (3) AS SOC
PR: SYG 2000 or SYG 2010. Examines, through films, how sociologists define and study social problems, and investigates the role of the popular media in the construction of social problems. Explores the solutions aimed at social problems in a comparative, international perspective.

SYG 3235 Latina/Latino Lives 6A AP LW WRIN (3) AS SOC
PR: SYG 2000 or SYG 2010. An exploration of the experiences of Latinas and Latinos in the United States. Examines such sociological themes as oppression, migration, work, family, activism, spirituality, and sexuality through short stories, poetry, and scholarly research.

SYO 3120 Sociology of Families (3) AS SOC
With a goal to understand American families in the present, this course will examine variations in family types by social class, race, ethnicity, and historical era. Exploration of current controversies about how families should be organized and about what they should do for their members as well as social policies related to families.

SYO 3200 Sociology of Religion (3) AS SOC
PR: SYG 2000 or CI. An examination of the meanings of religion lived in experiences in the contemporary United States. Includes the construction and maintenance of religious meanings and communities, the impact of those meanings and communities on daily lives, use and impact of religious discourse in daily lives, social movements motivated by religious beliefs.

SYO 3460 Sociology of the Media (3) AS SOC
PR: SYG 2000 or SYG 2010. Imparts a familiarity with and working knowledge of the main theories, research, and findings in the sociology of the media. Fosters critical thinking abilities by applying this sociological knowledge to the deconstruction of media images.

SYO 3530 Social Inequalities in a Global Society (3) AS SOC
Introduction to the major concepts and theories used to explain inequality. The topics of race, gender, and sexual orientation will be treated in relation to class, rather than as a parallel dimension of stratification.

SYO 4204 Religion and Immigration (3) AS SOC
PR: SYG 2000 or CI. This course examines: 1) how immigrant communities have been, and are currently, influenced by religion; and 2) how immigrant communities have transformed, and are currently transforming, the religious landscape of the U.S.

SYO 4250 Sociology of Education (3) AS SOC
PR: SYG 2000 Application of sociological theory to the social institution of education. Primary attention directed toward the social organization of educational systems.

SYO 4400 Medical Sociology (3) AS SOC
PR: SYG 2000 or CI. The study of disease and the sick person including the analysis of health practices, beliefs, and practitioners, the hospital as an organization, the cost, financing, and politics of health care.

SYO 4430 Disability and Society 6A MW WRIN (3) AS SOC
PR: SYG 2000 or SYG 2010. Examines through popular culture the solutions aimed at social problems in a comparative, international perspective.

SYO 4534 Poverty and Society (3) AS SOC
PR: SYG 2000 or SYG 2010. Explores poverty by looking at the United States and selected less developed countries around the world. Utilizing sociological theories of poverty, different aspects of poverty will be explored.

SYO 4572 Hidden Structures of Social Life (3) AS SOC
PR: SYG 2000 or SYG 2010. Communication networks and the social structures that emerge in them constitute the subject matter for this course: structures of internation in informal groups and formal organizations, social networks, and class and stratification structures.

SYO 4573 Social Networks (3) AS SOC
PR: SYG 2000 and STA 2122 or equivalent. Examines how relationships among individuals organize larger social systems (such as social groups and communities) and how these patterned relationships impact actors within social systems.

SYP 3000 Social Psychology SS CASB (3) AS SOC
Course explores social forces shaping individual perceptions/behaviors/personality/identity. Addresses our participation in society, how people influence each other, how we act based on beliefs and why & this is important.

SYP 3004 Constructing Social Problems (3) AS SOC
Examination of how activists, media, politicians, and scientists construct public images of social problems; analysis of the process of forming social policy and how public images of social problems shape the characteristics of social service agencies.

SYP 3060 Sociology of Sexualities (3) AS SOC
Explores the interactions, among and between people, and people and institutions that form the boundaries through which sexualities are understood in the United States. Addresses interactions with and within medical and religious institutions, racial/ethnic cultures, families and popular culture.

SYP 3562 Family Violence (3) AS SOC
An exploration of the complexity of the causes and
consequences of physical and emotional violence among family members. Topics include the meanings and behaviors of violence, the process of help-seeking, and social interventions for offenders and victims. Open to nonmajors.

**SYP 4012 Emotions in Society** (3) AS SOC
PR: SYG 2000 or SYG 2010. Examines the theories, concepts, and larger social contexts of emotions, and investigates sociological research on feelings such as anger and fear; pride and shame; love, friendship and sympathy; sadness and depression; grief and loss.

**SYP 4111 Identity and Community** (3) AS SOC
This course is a sociological examination of the meanings of identity in the post-modern era. Topics will include the characteristics of identity at the levels of individuals, institutions, culture, and the processes of identity construction and change.

**SYP 4420 Consumer Culture 6A MW LW WRIN** (3) AS SOC
PR: SYG 2000 or CI. The exploration of how Americans’ purchasing behavior connects to larger historical shifts in our economy, including disenchantment, alienation, inequality, and the rise of the credit card society.

**SYP 4510 Sociological Aspects of Deviance** (3) AS SOC
The examination of the social construction of deviance: how deviance is defined, implications of deviance designations. Applications of theories of deviance to questions such as motivations of deviants and implications of criminal justice processing of deviants.

**SYP 4513 Elite Deviance** (3) AS SOC
PR: SYG 2000 or SYG 2010 or Consent of Instructor. The course challenges traditional definitions of deviance by examining social harms caused by the very wealthy, corporations, and large organizations such as the federal government.

**SYP 4530 Sociology of Juvenile Delinquency** (3) AS SOC
Sociological issues in defining delinquency; the nature of adolescence and delinquency; sociological theories of the causes of delinquency; types and consequences of social control applied to delinquents.

**SYP 4550 Drugs and Society** (3) AS SOC
PR: SYG 2000 or SYG 2010. Explores the social construction of substance use in the United States. Examines individual users and the popular perspectives on the causes of substance use and abuse such as the medical, psychoanalytic, and sociological models.

**SYP 4650 Sport in Society** (3) AS SOC
An examination of the broad issues concerning sport in both a historical and contemporary perspective. Sport will be viewed in relation to social institutions, economic considerations, mass media, and the sport group as a micro-social system.

**SYP 4651 Gender, Sport, and the Body** (3) AS SOC
PR: SYG 2000 or SYG 2010. Explores ways sport in U.S. culture is organized by and used to recreate gender in social interaction. Examines the recent history of women in sport and questions the relationship between masculinity, sport participation and women's and men's embodiment.

**SYP 4675 Animals & Society** (3) AS SOC
PR: SYG 2000. Explores the complex role of non-human animals in human society by exploring how we, as humans, socially construct animals.

**SYP 4763 Sociology of Childhood and Youth** (3) AS SOC
PR: SYG 2000 or SYG 2010. Examines a variety of issues including: child-rearing; invention of adolescence; child abuse; children’s schooling; juvenile delinquency; dating; children in the movies; children as consumers; youth culture and rebellion; transition into adulthood.

**TAX 4001 Concepts of Federal Income Taxation** (3) BA ACC
PR: ACG 3103 with a grade of C or better, not C-. Major concepts used in taxation of income by federal government including enactment of tax laws, basic tax research, preparation of basic tax returns and exploration of tax policy issues.

**TAX 5015 Federal Taxation of Business Entities** (3) BA ACC
PR: TAX 4001 with a grade of C or better, not C-. Tax issues encountered by small businesses. Includes tax planning, capital formation and preservation, tax compliance and tax alternatives.

**THE 2020 Introduction to Theatre** (3) FA TAR
An introduction to the art of theatre as part of the larger context of the nature of art itself. The approach will be both chronological and multi-cultural. Required of all theatre majors.

**THE 2252 Great Performances on Film** FA CAFA HHCP (3) FA TAR
This class traces the evolution of acting styles as evidenced through 100 years of cinema, and explores how movies and actors have mirrored or influenced cultural, political, and social change.

**THE 2305 Script Analysis** (3) FA TAR
PR: Sophomore standing, THE 2020. This course teaches theatre students the techniques of close reading of dramatic texts.

**THE 3110 Theatre History I** MW CPST HHCP (3) FA TAR
PR: Sophomore standing, THE 2020. The study of theatrical production in its cultural context, including theatre architecture, scenography, acting and directing from Greek antiquity to the Elizabethan era. Normally fifteen plays will be read.

**THE 3111 Theatre History II** MW CPST HHCP (3) FA TAR
PR: Sophomore standing, THE 2020. A study of theatrical production in its cultural context including theatre architecture, scenography, acting and directing from Shakespeare to the contemporary stage. Normally fifteen plays will be read.
## COURSE DESCRIPTIONS

### THE 4174 New British Theatre and Drama 6A MW LW (3) FA TAR
PR: THE 2305 and Junior Standing. A study of contemporary theatrical practice and key dramatic texts in the British Isles. This course is restricted to majors.

### THE 4180 Theatre Origins 6A MW LW (3) FA TAR

Open to senior non-majors with CI. An analysis of the development of theatre out of myth, ritual, and liturgy. Emphasis placed on what attempts to understand the resulting phenomena (e.g. Aristotle’s Poetics) can teach us about the nature of our art. Either THE 4180 or THE 4562 is required of all theatre majors.

### THE 4264 History Of Costume (3) FA TAR
PR: Sophomore standing. Open to upper level non-majors with CI. A survey of clothing and dress from Ancient Egypt to the 20th Century with an emphasis on cultural and social influences. (A requirement in the design track/costume.)

### THE 4283 Architecture And Decoration (3) FA TAR
PR: Sophomore standing. Open to upper level non-majors with CI. A survey of architecture and furniture from ancient Egypt to the 20th Century. (A requirement in the design track/scenic.)

### THE 4330 Shakespeare for The Theatre 6A MW LW WRIN HHCP (3) FA TAR
Study of select Shakespeare plays through current and past performance. Examination of texts, filmed rehearsals, scholarly sources, and commercial movies. Performance required in face to face sections.

### THE 4401 American Drama 6A MW LW WRIN HHCP (3) FA TAR
THE 4401 examines seminal American plays and high quality film adaptations derived from them. Each play is examined as a script for performance and as an object in an aesthetic, social and historic context.

### THE 4430 Caribbean Theatre 6A MW LW CPST (3) FA TAR
PR: THE 2305 and THE 3110 or THE 3111. A study of plays and popular theatrical forms of the Caribbean including carnival and calypso. The student will investigate the social and political forces that shape the culture of the Caribbean.

### THE 4480 Drama-Special Topics (3) FA TAR
PR: THE 3110 or THE 3111. Open to upper level non-majors with CI. A study of a significant playwright or grouping of playwrights, e.g. Moliere, Brecht, recent American dramatists.

### THE 4562 Contemporary Performance Theory 6A MW LW CPST HHCP (3) FA TAR

### THE 4593 Honors Seminar (2) FA TAR
Enrollment limited to upper level majors who have been formally admitted to the department honors program. Not available S/U. Readings in the literature, history and theory of the stage in preparation for Theatre Honors Practicum. Past topics have included New German Theatre, Popular Theatre, New American Theatre, Jacobean Theatre.

### THE 4594 Honors Practicum (3) FA TAR
PR: THE 4593. Honors Practicum grows out of the Honors Seminar and engages students in workshops or production with guest artists. Past artists have included the Free Theatre of Munich, the San Francisco Mime Troupe, playwrights Eric Overmeyer, Jeff Jones and Gary Hill.

### THE 4595 Honors Thesis (1-3) FA TAR
PR: THE 4594. A practical or written thesis related to the seminar and practicum and approved by the departmental honors committee.

### THE 4905 Directed Studies (1-4) FA TAR
Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

### THE 4930 Selected Topics In Theatre (1-8) FA TAR
PR: CI. The content of the course will be governed by student demand and instructor interest. May be lecture or class discussion or studio format.

### THE 5909 Directed Studies (1-6) FA TAR
PR: CI and CC. Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

### THE 5931 Selected Topics In Theatre (1-8) FA TAR
PR: CI. The content of the course will be governed by the student demand and instructor interest. May be lecture or class discussion or studio format.

### TPA 2200 Introduction to Technical Theatre I (3) FA TAR
CR: TPA 2290L or CI. An introductory course in technical production including coursework in the areas of scenic construction, theatre production/organization, and sound. Required for Theatre majors. Requires sequential semester enrollment with TPA 2211 and TPA 2291L. Open to non-majors.

### TPA 2211 Introduction to Technical Theatre II (3) FA TAR
CR: TPA 2291L or CI. An introductory course in technical production including stage lighting, costume construction, and sound. Required for Theatre majors. Requires sequential semester enrollment with TPA 2200 and TPA 2290L. Open to non-majors.

### TPA 2220 Introduction to Technical Theatre III (3) FA TAR
CR: TPA 2220L. An introductory course designed to acquaint students with a working knowledge of the basic skills, equipment and terminology in stage lighting production. Open to non-majors.

### TPA 2220L Technical Theatre Lab III (1) FA TAR
CR: TPA 2220. A practical laboratory providing an
understanding of the duties associated with lighting crews through hands on production experiences. Open to non-majors.

TPA 2248 Workshop in Stage Makeup (1) FA TAR
Beginning theory and practice in make-up for the stage. Open to non-majors. Theatre majors given preference. A studio course.

TPA 2290L Technical Theatre Lab I (1) FA TAR
CR: TPA 2200 or CI. A practical laboratory involving the pre-performance preparation of all technical aspects of a major production such as: painting, sewing, lighting, and sound. Students are assigned two areas of study per semester. Required of all Theatre majors. Open to non-majors.

TPA 2291L Technical Theatre Lab II (1) FA TAR
CR: TPA 2211 or CI. A practical laboratory involving the pre-performance preparation of all technical aspects of a major production such as: painting, sewing, lighting, and sound. Students are assigned two areas of study per semester. Required of all Theatre majors. Open to non-majors.

TPA 2292 Production Involvement I (1) FA TAR
PR: TPA 2200, TPA 2290L, TPA 2211, TPA 2291L or CI. The rehearsal, construction, and performance of major theatrical works. Assignments are made by a faculty committee following the students completion of a PI request form, available in the Theatre Office, and enrollment in this course.

TPA 3007 Introduction to Design I (3) FA TAR
PR: TPA 2200, TPA 2211, TPA 2290L, and TPA 2291L. Open to non-majors. This course will include lectures, demonstrations, individual student presentations, and studio activities. The course work will provide an introduction to the various aspects of design including: two and three dimensional design, basic presentation and visual communication skills, research, and project analysis/organization.

TPA 3008 Introduction to Design II (3) FA TAR
PR: TPA 3007. This course will include lectures, demonstrations, individual student presentations, and studio activities. The course work will provide an introduction to the various aspects of design including: two and three dimensional design, basic presentation and visual communication skills, research, and project analysis/organization. Open to non-majors.

TPA 3208 Drafting and CAD I (3) FA TAR
PR: TPA 2200, TPA 2211, TPA 2290L and TPA 2291L. The course will include lectures, demonstrations, individual student presentations, and studio activities. The course work will provide an opportunity to develop skills and techniques in the visual presentation of various design and technical draftings. Open to non-majors.

TPA 3221 Lighting: Theory And Practice (3) FA TAR
PR: TPA 3208 or CI. Intermediate lighting design course concerned with graphic presentations, color theory, design concepts, and practical experience with computer lighting systems. A requirement in the design track/lighting.

TPA 3231 Costume Construction (3) FA TAR
PR: TPA 3208 or CI. A practical course in the drafting of patterns for costuming the actor. Materials, skills, and techniques for construction of costumes and costume accessories will be treated. Included topics are millinery, footwear, jewelry, masks, armor, courtesy; both period and modern.

TPA 3251 Drafting and CAD II (3) FA TAR
PR: TPA 3208. Continuation of TPA 3208. The course will include lectures, demonstrations, field trip(s), individual student presentations, and studio activities. The course work will provide an opportunity to develop your skills and techniques in the visual presentation of various design and technical draftings. Open to non-majors.

TPA 3265 Sound For The Stage (3) FA TAR
PR: TPA 2200, TPA 2290L, TPA 2211, and TPA 2291L. Open to non-majors with CI. Basic study of audio components, fundamental properties of sound, multiple channel recording, editing, reproduction and reinforcement. Methods and techniques used in theatre to create sound effects.

TPA 3296 Design Practicum (2) FA TAR
PR: TPA 3008. This is a studio/laboratory course in the practical aspects of production. The course is intended to provide realized production experience to the advanced theatre design student in such areas as costume, lighting, and scenic design; stage properties design; technical direction; and theatrical production craft/skill areas. The student will be individually mentored by a faculty member through the process of developing and realizing a production design/craft/skill.

TPA 3601 Stage Management (2) FA TAR
PR: TPA 2200, TPA 2290L, TPA 2211, and TPA 2291L. Open to non-majors with CI. A practical course in the working organizational function of the stage manager in theatre, dance, opera, and other live performance situations.

TPA 4011 Design Studio I (3) FA TAR
PR: TPA 3008 and TPA 3208 plus two of TPA 3231, TPA 3221, or TPA 3251. TPA 4011 will include studio design project activities in the areas of costume, lighting, and scenic design. The course work will stress the nature of collaborative work and the various stages and processes involved with the development of a design from the first meeting to the final paper/model design.

TPA 4012 Design Studio II (3) FA TAR
PR: TPA 4011. This course will include studio design project activities in the areas of costume, lighting, and scenic design. The course work will stress the nature of collaborative work and the various stages and processes involved with the development of a design from the first meeting to the final paper/model design. Evaluation of the project will emphasize the process followed in the development of the design including thumbnail/idea sketching, research, and production concept. The course will include seminar (production)
COURSE DESCRIPTIONS

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TPA 4013 Design Studio III (3) FA TAR
PR: TPA 4012. This course will include studio design project activities in an individual's selected primary and secondary areas of costume, lighting, and/or scenic design. The course work will stress the nature of collaborative work and the various stages and processes involved with the development of a design from the first meeting to the final paper/model design.

TPA 4077 Scene Painting (2) FA TAR
PR: TPA 3007. Open to upper level non-majors with CI. A practical course in the painting of stage scenery: media and application.

TPA 4273 Stage Properties: Techniques And Materials Studio (2) FA TAR
PR: TPA 3007. Open to upper level non-majors with CI. Demonstration of and experience with materials used in construction of stage properties. Modeling of prototypes and basic casting techniques. Organization of shop.

TPA 4293 Production Involvement II (1) FA TAR
PR: TPA 2292 or CI. The rehearsal, construction, and performance of major theatrical works. Assignments are made by a faculty committee following the student's completion of a PI request form, available in the Theatre Office, and enrollment in this course.

TPA 4298 Advanced Design Practicum (3) FA TAR
PR: TPA 4011. This is a studio/laboratory course in the practical aspects of production. The course is intended to provide realized production experience to the advanced theatre design student in such areas as costume, lighting, and scenic design; stage properties design; technical direction; and theatrical production craft/skill areas. The student will be individually mentored by a faculty member through the process of developing and realizing a production design/craft/skill.

TPP 2110 Voice-Body-Improvisation (3) FA TAR
Exploring the elements basic to acting skills, a participation course. Required of all theatre majors. Open to non-majors.

TPP 2190 Studio Theatre Performance I (1) FA TAR
PR: TPP 2110. THE 2020. A practical laboratory involving the rehearsal and performance of a major production. Activities may include acting, directing, stage management, and the activities of the performance production crews. Placement by audition. If cast in production student must accept role. Required of all Theatre majors. May be repeated. Open to non-majors with CI.

TPP 2500 Body Disciplines (3) FA TAR
PR: TPP 2110. A laboratory course in various disciplines or systems and understanding the body's motive powers, with focus on their use for the stage performer.

TPP 3121 Improvisation I (3) FA TAR
PR: TPP 2110. An intensive study in improvisation as an enhancement of the actor's skill. Exercises and theatre games as flexible forms which accommodate improvisation and physical invention are examined and used to develop group creativity.

TPP 3155 Scene Study I (3) FA TAR
PR: Audition and all core 2000 level courses. Identify and investigate the fundamental elements of acting as applied to scene exploration, rehearsal, and presentation.

TPP 3230 Laboratory Workshop In Performance (3) FA TAR
PR: Audition and TPP 2110. May be repeated twice for a total of 9 hours credit. Open to upper level non-majors by audition only. The content of the course will be governed by student demand and instructor interest.

TPP 3580 Special Skills In Movement (3) FA TAR
PR: TPP 2110 or CI. May be repeated for credit. Open to upper level non-majors with CI. Stage combat, circus and acrobatic techniques, and other special techniques of movement.

TPP 3790 Voice Preparation For The Actor (3) FA TAR
PR: TPP 2110. A concentrated laboratory on freeing the breathing function, developing body and oral resonance, and strengthening muscles used in the formation of speech sounds.

TPP 4140 Styles Of Acting (3) FA TAR
PR: TPP 4180 and audition or CI. Examination of the actor's craft and skills needed to fulfill the demands of classical theatre forms.

TPP 4180 Advanced Scene Study (3) FA TAR
PR: Audition and TPP 3155 or TPP 3921. An acting workshop focusing on application of character development and rehearsal techniques over a sustained period leading toward a project showing at semester's end.

TPP 4193 Studio Theatre Performance II (1) FA TAR
PR: TPP 2190. A practical laboratory involving the rehearsal and performance of a major production. Activities may include acting, directing, stage management, and the activities of the performance production crews. Placement by audition. If cast in production student must accept role. Required of all Theatre majors. May be repeated. Open to non-majors with CI.

TPP 4221 Audition Workshop for Actors (3) FA TAR
PR: TPP 3155 or TPP 3921. Preparation for professional audition; discussion of professional objectives.

TPP 4310 Directing I (3) FA TAR
PR: TPP 3155 or TPP 3230. An elective sequence in directing. A workshop course in which the student first encounters the basic tasks of the director by preparing and directing one or two scenes and then progresses to more complex scene work in a variety of styles and finally proceeds to the short play or theatre pieces.
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TTP 4311 Directing II (3) FA TAR
PR: TTP 4310 and CI. An elective sequence in directing. A workshop course in which the student first encounters the basic tasks of the director by preparing and directing one or two scenes and then progresses to more complex scene work in a variety of styles and finally proceeds to the short play or theatre pieces.

TTP 4600 Writing For The Theatre (3) FA TAR
PR: TTP 3110 or THE 3111. An elective sequence in writing, in which the student first encounters the problems unique to dramatic language and situation, then progresses to complexities of character, plot, and stage dynamics. Normally the aim would be to complete several performance-worthy self-contained scenes.

TTP 4920 Senior Workshop For Actors (3) FA TAR
PR: TTP 2500, TTP 3790, TTP 3155, or TTP 3921. A workshop in advanced vocal and movement techniques.

TTP 4923 Music Theatre Workshop (3) FA TAR
PR: TTP 2110 and audition. Open to non-majors by audition only. Exploration of Musical Theatre materials and performance techniques for the performer. Individual and ensemble work.

TSL 4080 ESOL 1 - Curriculum and Pedagogy of ESOL (3) ED EDI
This course is designed to prepare pre-professional (pre-service) teachers to provide linguistically and culturally appropriate instruction, learning opportunities and assessment for English Language Learners (ELLs) in grades K-12.

TSL 4081 ESOL 2 - Literacy Development in English Language Learners (3) ED EDI
PR: TSL 4080 or FLE 4317. This course is designed to provide students with a critical understanding of instructional delivery which caters to the linguistic and literacy needs of minority/heritage communities. Providing students with a sociocultural-critical theoretical framework.

TSL 4251 ESOL 3 - Applying Linguistics to ESOL Teaching and Testing (3) ED EDI
PR: TSL 4080 and TSL 4081. This course provides an overview of the components of language, linking them to methods and techniques of providing comprehensible instruction to English Language Learners (ELLs) and supports the development of professional literacy skills.

TSL 4324 ESOL Competencies and Strategies (1-3) ED EDI
Designed to enable participants to meet the special limitations and cultural educational needs of LEP students in content area classes. Designed to provide a theoretical and practical foundation for ESOL competencies and strategies.

TSL 4362 Methodology of Teaching English Overseas (3) AS WLE
PR: Upper-level standing. Designed to introduce and prepare the enrollee in the various facets of teaching English as a foreign language in the overseas setting. It will include aspects of teaching verbal skills and comprehension as well as writing. It involves a practicum at the English Language Institute on campus.

TSL 4941 ESOL Practicum (1) EP EDI
PR: BXE Majors only. FLE 4317 and FLE 4316. Students will apply knowledge and skills in the areas of ESOL methods, culture, curriculum, assessment, applied linguistics and second language acquisition to teaching English language learners. Restricted to education majors. Not repeatable.

TSL 5085 ESOL I - Theory and Practice of Teaching English Language Learners (3) ED EDI
This course is for undergraduate degree holding, preprofessional (preservice) teachers to learn about appropriate instruction, assessment and learning opportunities for Limited English Proficient (LEP) students in the content areas.

TSL 5086 ESOL II-Secondary Language & Literacy Acquisition in Children & Adolescents (3) ED EDI
PR: TSL 5085. This course is designed to provide students with a critical understanding of instructional delivery which caters for the linguistic and literacy needs of minority / heritage communities.

TSL 5242 ESOL III-Language Principles, Acquisition & Assessment for English Language Learners (3) ED EDI
PR: TSL 5086. This course provides an overview of the components of language, linking them to methods and techniques of providing comprehensible instruction to LEP students.

TSL 5325 ESOL Strategies for Content Area Teachers (3) ED EDI
Course designed for public school teachers working with limited English Proficient (foreign) students in the classroom. The new ESOL requirements specify that this course be offered to content area teachers and to ESOL teachers.

TSL 5326 L2 Reading for ESOL Students across Content Areas (3) ED EDI
This ESOL course will provide students with a critical understanding of the linguistic and literacy needs of minority/heritage students, and will negotiate issues of second language learning, language varieties, as well as critical literacy and reading.

TSL 5371 Methods of Teaching English As A Second Language (3) AS WLE
Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

TSL 5372 ESOL Curriculum and Instruction (3) AS WLE
Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

TSL 5440 Language Testing (3) AS WLE
PR: TSL 5371. Lecture course on testing English as a second/foreign language.
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**URP 4052 Urban and Regional Planning (4) AS SPF**
PR: GEO 2400, GEO 3602. The geographic foundations of the modern city, metropolitan development, and the trend toward megalopolis. Examined are the political problems of conflicting jurisdictions at the local, county, state, national, and international levels.

**URS 3002 Introduction to Urban Studies (3) AS SPF**
An interdisciplinary introduction to the process of urbanization in the United States and the diverse communities it has created. Study of the Tampa Bay region is emphasized.

**VIC 3001 Introduction to Visual Communications (3) AS COM**
PR: MMC 2100 and MMC 3602. Survey of visual communication theory, techniques and contemporary application in the visual media. Critical examination of visual communication in newspapers, magazines, television, motion pictures and new media.

**VIC 3943 Visual Communication Practicum (1) AS COM**
PR: Senior standing and CI. For visual communications option majors. S/U only. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study.

**WOH 3293 Islam in World History AP HP (3) AS HTY**
This course examines the origins, spread, and development of Islam within the context of the main global historical processes and events of the past 1500 years.

**WST 2250 Female Experience in America HP CAHU HHCP (3) AS WST**
This course explores the lives and experiences of women and girls in America from 1870 to the present, examining how issues of gender, race, class, ethnicity, and sexuality shaped both their experiences and our historical understanding of their lives.

**WST 2600 Human Sexual Behavior SS CASB (3) AS WST**
The dynamics of human sexuality: biological, constitutional, cultural, and psychological aspects. The range of sexual behavior across groups. Sources of beliefs and attitudes about sex, including sex roles and especially human sexuality.

**WST 3015 Introduction to Women's Studies SS AP CASB (3) AS WST**
This course introduces the interdisciplinary field of Women's Studies through a critical examination of the way gender, race, class and sexuality are socially constructed and demonstrates how activism is inherent in Women's Studies discourse.

**WST 3210 European Feminist History: Pre-18th Century 6A HP (3) AS WST**
Survey of European feminist history prior to the 18th century (focusing primarily on Western...
COURSE DESCRIPTIONS

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WST 3220 European Feminist History: Enlightenment to the Present HP (3) AS WST
A survey of European feminist history from the 18th century through the 20th century (focusing primarily on Western Europe). Examining women's lives, roles and ideas, as well as the dominant attitudes toward women over this time period.

WST 3311 Issues in Feminism SS CASB (3) AS WST
Survey of major issues relevant to the female experience: marriage and the family, sexuality, work, creativity.

WST 3324 Women, Environment and Gender MW CANL (3) AS WST
PR: BSC 1005 or BSC 2010, any Introductory science course from biology, chemistry, physics, public health or WST 4320. Investigation of intersection of women's studies, gender and environment with focus on women's health. Exploration of hypothesis formulation and testing, current issues.

WST 3370 Women and Social Action SS (3) AS WST
Course focuses on ordinary women working collectively in diverse social settings to empower themselves and others to challenge gender stereotypes; to reduce harassment, poverty, violence and homelessness; to enhance health-care and family life and to confront barriers in education, the media and the criminal justice system.

WST 3412 Women in the Developing World (3) AS WST
Survey of status of women in Asia, Africa, Latin and Caribbean America, compared to that in USA, Canada, West Europe, Marxist-Leninist countries. (May also be taken for credit in Government and International Affairs.)

WST 3620 Men and Sexism (3) AS WST
Ways in which sex role conditioning affects the lives of men. Factors in this conditioning and alternatives to masculine sex role models.

WST 4002 Feminist Research Methods (3) AS WST
PR: WST 3015. The survey, design, and practice of qualitative and quantitative methods in feminist research. Restricted to majors; non-majors by permission of instructor.

WST 4262 Literature by Women of Color in the Diaspora 6A LW WRIN (3) AS WST
Will not be counted toward the English major. An introduction to contemporary women writers of color in the U.S.: Native Americans, African Americans, Asian Americans, and Chicanas/U.S. Latinas. Readings will include literature and contextual articles on historical and cultural issues.

WST 4310 History of Feminism in the U.S. 6A MW (3) AS WST
A study of feminist critiques of American women's experiences and status, and their implications for women's lives, by 19th- and 20th-century theorists, and how adequately these various critiques address the intersections of gender, class, ethnicity, and race.

WST 4320 Politics and Issues in Women's Health CASB (3) AS WST
This course will focus on celebrating women's health and wholeness: mental, physical, emotional, spiritual, social, economic, and understanding the potential negative effects of institutional and interpersonal oppression on health and wellness.

WST 4335 Women and Film (3) AS WST
A study of representation of women in films and the responses of feminist film theorists and filmmakers.

WST 4350 Women and Science MW (3) AS WST
An examination of selected issues related to women and the natural and physical sciences including: historical participation of women in science, current status of women in science, and feminist critiques of science as a discipline.

WST 4410 Postcolonial Women Writers (3) AS WST
Will not be counted toward the English major. Introduces the literature of women from various Anglophone countries in Africa, the Caribbean, and South Asia; some U.S. writers will be included to represent a third world diasporic consciousness.

WST 4522 Classics in Feminist Theory MW CAHU HHCP (3) AS WST
Introduces students to first and second wave feminist theories, which explain the pervasiveness of sexist, racist, classist, heterosexist bias in our everyday lives.

WST 4561 Contemporary Feminist Theory (3) AS WST
PR: Completion of one upper division Women's Studies course. An exposure to and an exploration of a wide range of current feminist theories and debates, as well as an examination of the possible political and practical implications for various theoretical positions.

WST 4900 Directed Readings (1-3) AS WST
PR: Registration requires instructor's written consent and signed contracts from instructor of choice. To provide advanced students with interdisciplinary research experience in areas of specific interest.

WST 4910 Directed Research (1-3) AS WST
PR: Registration requires written contract signed by student and instructor of choice. To provide advanced students with interdisciplinary research experience in areas of specific interest.

WST 4930 Selected Topics (1-4) AS WST
Study in special areas such as Women and Work, Reproductive Law, Women and Health.

WST 4935 Capstone/Senior Project CPST (3) AS WST
PR: Women's Studies Major and 24 credit hours in Women's Studies. Recognizing the interplay between personal connections and intellectual experience, this capstone course is designed to focus on topical areas related to women's studies.
and facilitate linking student learning experience to future plans.

WST 5490 Internship in Women’s & Gender Studies (1-3) AS WST
PR: 12 credits of Women’s Studies courses. Supervised work-and-learning experience in women’s and gender studies under the direction of a University faculty member/administrator and an employee of a sponsor organization. Restricted to majors only. Repeatable once for a total of 6 credit hours.

WST 5308 Feminist Spirituality (3) AS WST
Open to non-majors. Focuses on the many voices of contemporary feminist spirituality, emerging from women’s experiences in diverse religious, ethnic and cultural traditions, and representing a range of theoretical perspectives from biblical feminism to goddess worship and wicca.

WST 5934 Selected Topics (1-4) AS WST
PR: DPR. Study of current research methods and scholarship on women from a multidisciplinary perspective.

WST 5490 Internship in Women’s & Gender Studies (3-6) AS WST
PR: Majors only. All required courses in MA program, CC. Permit. Student placement in an approved internship setting for a minimum of 240 hours of supervised experience. S/U only.

ZOO 2303 Vertebrate Zoology (3) AS BIN
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L. The origin, diversity, and adaptations of the vertebrates. Phylogenetic systematics (cladistics) will be used as the basis for determining evolutionary relationships of organisms. Monophyletic groupings provide a framework for examining behavior, physiology, and ecology in an explicit evolutionary context. Vertebrates common to Florida and the southeastern United States will be emphasized.

ZOO 2710C Anatomy of Chordates (4) AS BIN

ZOO 3205C Advanced Invertebrate Zoology (4) AS BIN
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045, CHM 2046, plus completion of one of the following Biology core courses: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712. Phylogeny, taxonomy, development, physiology, macro-, microanatomy and natural history of marine/freshwater dwelling invertebrate phyla (including protists and excluding parasites and insects) covered in integrated manner. Extensive lab work/Some fieldwork.

ZOO 3407 Biology of Sharks and Rays (3) AS BIN
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045, CHM 2046 OR CALCULUS (MAC 2241, 2281, 2311) OR STA 2023. The course explores the diversity, taxonomy, anatomy, behavior, ecology, physiology, reproductive biology, growth, life history, and habitat use of sharks/rays, providing students with an in-depth view of the biology of sharks and their relatives.

ZOO 3407L Biology of Sharks and Rays Laboratory (1) AS BIN

ZOO 3713C Comparative Vertebrate Anatomy (5) AS BIN
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course, or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 or CHM 2211. Anatomy of selected vertebrate types emphasizing evolutionary trends. Lecture and Laboratory.

ZOO 4233 Parasitology (3) AS BIN
PR: BSC 2011, BSC 2011L and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. Fundamentals of animal parasitology and parasitism, the biology of selected animal parasites, including those of major importance to man. Lecture and laboratory.

ZOO 4377 Functional Morphology (3) AS BIN
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045, CHM 2046, ZOO 3713C. RECOMMENDED COURSES: PCB 3712 AND PCB 4674. This course explores the relationship between vertebrate form and function; basic concepts of biomechanics; responses of vertebrate form to ecological and evolutionary constraints.

ZOO 4454 Fish Biology (3) AS BIN
PR: CI, Senior Standing, BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045, CHM 2046, ZOO 3713C or PCB 3712 or BSC 2093C or ZOO 2303. Covers the systematics, anatomy, physiology, reproductive biology, behavior and ecology of fish.

ZOO 4454L Fish Biology Lab (1) AS BIN
PR: ZOO 4454. This is a lab course in fish biology designed to familiarize undergraduate students with the anatomy, ecology, behavior, and classification of fishes.

ZOO 4512 Sociobiology MW (3) AS BIN
This course is restricted to seniors. Not for major's credit. An analysis of Animal and human behavior such as sex, territoriality, and aggression in the context of evolution.

ZOO 4513 Animal Behavior (3) AS BIN
PR: PCB 3023 or PCB 3043 or PCB 3063 & CHM 2210 & MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2211. An introduction to comparative animal behavior, with analysis of types of animal behavior, their function and evolutionary origin. Lecture only.

ZOO 4694 Developmental Biology (3) AS BCM
PR: PCB 3023, BSC 2011, BSC 2011L, BSC 2010, BSC 2010L CHM 2045, and CHM 2046. This course will use a problem solving approach to provide fundamental knowledge of scientific concepts and principles involved in the mechanisms underlying
patterns of embryonic development for majors/nonmajors

**ZOO 4753C Human Histology & Molecular Pathology of Disease (4) AS BCM**  
PR: PCB 3023, PCB 3063, CHM2210 and MAC1105 or higher level MAC or STA2023. CP: CHM 2211. The study of cellular and molecular mechanisms underlying various disease states of the human body present in the context of traditional pathology.

**ZOO 5456L Ichthyology Lab (1) AS BIN**  
CR/PR: ZOO 5456 Laboratory portion of Ichthyology relating to evolution, systematics, structure, behavior, physiology and ecology of fishes.

**ZOO 5463C Herpetology (4) AS BIN**  
PR: CI. Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Lec.-lab. Field trip.

**ZOO 5555C Marine Animal Ecology (4) AS BIN**  
PR: PCB 3043, senior standing, CI. Investigation of energy flow, biogeochemical cycles, and community structure in marine environments. Lec.-lab.
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